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Monday March 24 1980

**Thwaites** Alldrive 5 ton GIANT.

Budget may

ally, the likely measures will not

a result of leasing operations. This would change the present

arrangement under which hanks

and other companies can signi-ficantly reduce their Corporation

Tax bills by taking advantage of

the capital allowances arising

from the purchase of equipment

produce little revenue imme-

diately, has been under con-

sideration for some time,

following the rapid growth of

Oil companies operating in

the North Sea are likely to be

affected by an increase in

petroleum revenue tax from 60

per cent to 70 per cent or more.

Senior ministers are aware of

the widespread political protest

about the recent large profit in-

creases reported by both banks

and oil companies. But they feel a windfall tax would be

wrong, particularly as part of

the rise in bank profits is

cyclical and is likely to be

Measures on leasing and

Sir Geoffrey Howe, the

North Sea profits are expected in a long list of tax and spend-

ing proposals to be presented

leasing in recent years.

This proposal, which would

before leasing

BUSINESS

assets

deposits worth nearly \$2bn (£917.6m) with the Egyptian

Central Bank frozen late last

year by President Sadat's Gov-

BELGIAN FRANC improved

in the European Monetary

System last week, after a two-

point rise in the Belgian dis-

count rate to 14 per cent, and

was comfortably within its maxi-

mum permitted divergence.

However, it remained the

weakest currency in the system,

The Italian lira lost ground

to end the week just above the

krone, and its softer tendency

partly reflected concern over

the latest Government crisis.

The Irish punt and the Deutsche Mark improved slightly, but the French franc remained the most improved

currency, closely followed by

SX EMS MARCH 21, 1980

GRID

REI GRAN

Hong Kong ship

deal with China

• HONG KONG shipowner Sir Yue-Kong Pao confirmed that he had agreed to a joint ven-ture with China, that would

STEEL unions were unsure

whether the Government would agree to the kind of committee

of inquiry they have proposed in a bid to end the 12-week steel strike. Back Page:

 ENGINEERING Employers Federation advised the Govern-ment to define more precisely

the circumstances in which

immunity from civil proceed-ings for secondary industrial

action involving first suppliers and customers would continue

under new legislation. Page 7

ITALIAN aerospace industry

. LLOYD'S of London under-

writing syndicate once headed

by Frederick Sasse is resuming

its legal action against the

Instituto de Resseguros do Brasil to recover \$13m (£5.9m)

in reinsurance claims. Page 6

AT LEAST FOUR major UK

the Dutch guilder.

6<u>%</u>-

followed by the Danish krone.

ernment. Back Page

CONTINENTAL SELLING PRICES: AUSTRIA Sch 15; BELGIUM Fr 25; DENMARK Kr 4.25; FRANCE Fr 4; GERMANY DM 2.0; ITALY L 700; NETHERLANDS FI 2.0; NORWAY Kr 4.25; PORTUGAL Esc 35; SPAIN Pts 70; SWEDEN Kr 3.75; SWITZERLAND Fr 2.0; EIRE 20p; MALTA 20c

No. 28,126

YEWS SUMMARY

## GENERAL

## Pact on **Jewish** school Egypt for Arab froze city • KUWAIT and Saudi Arabia agreed not to press complaints with the IMF relating to

The Israeli Government has given the go-shead for setting up a religious seminary and a school in the centre of the Arab

Students will be moved into Jewish-owned houses unoccupied since the Jewish community was driven out of Hebron in the riots of 1929.

The decision, carried by a narrew vote in cabinet, is bound to exacerbate Israel's relations with the Arabs of the West Bank, with Egypt and the American administration.

## Shah flight

The former Shah of Iran and 113 wife Farah were reported in have left Panama yesterday on a U.S. Air Force jet for

## Italian move

Italian President Sandro Pertini asked Francesco Cossiga, the Christian Democrat Premier who resigned last week, to try to form a new Government as soon as possible. Page 2

## China talks Francis Pym, British Defence

Secretary, arrived in Peking for talks on defence and foreign policy. Back Page

## Fuel bill help

The Government is set to amounce the provision of £75m to help the needy with their furl bills. Back Page

## Health plan

considering the introduction of National Health stamp as an alternative to the present system of financing the health service, Back Page.

## TB alert

Over 1,000 Nottingham schoolchildren will be screened for TB following contact with a dental worker in whom the disease has been confirmed.

## Draft demo

About 30,000 demonstrators Washington's Capitol Hill protesting against plans to revive military draft

## Pinochet tour off Chilean President Augusto. Pinochet abandoned an Asian

lipines Government cancelled his Manila visit and demonstrators greeted him at Fiji airport. Snow hazard Weather conditions in Scotland i but snow fell in the West Midlands, Staffordshire,

and Pacific tour after the Phil-

Cheshire, Greater Manchester and Merseyside, making road conditions hazardous. Snow showers were reported as far

## Holiday crash

Sixteen people were killed and five seriously injured in Barce-lonette, France, when the bus taking these on a skiing holiday munged into a ravine. Most of the casualties were teenagers.

## Tiffany lamp sale The 49 lot Mihalak collection of Tiffagy lamps was sold in under in hour at Christie's in New York It fetched \$1.3m

## (£597,470). Briefly . . .

inglass woman who killed a tiger with an axe won an award

Companies face investigation by the Office of Fair Trading when tickers worth \$10,000 were the Competition Bill becomes stoled from a ricket agent.

## \_ CONTENTS \_

EEC: Guide to the Common Agricultural Policy ... 17

inagement: social change ...... 10 finance

23.

Technical News 17
Today's Evants 77
TV and Radio 17
UK News 22
Vesting 18
Vesting 18
Vesting 18
Vesting 18
ANNUAL STATEMENTS
Size. Westing 18
Nat'meride Bldg Soc 18 For latest Share Index 'phone 01-246 8026

Major world currencies: A Editorial comment: Civil switch of roles ...... 16 servants; Europe/Japan 16 Lombard: Samuel Brittan

on UK monetary control 14 Surveys: ..... Inset Viewdata banking

and

# opinion.

# Carter in move for widespread financial system reforms

BY STEWART FLEMING IN NEW YORK

The U.S. Senate and House of Representatives are expected to move rapidly in the next two weeks toward enacting a Bill providing for the most farreaching reforms of the American financial system since the 1930s. If passed by Congress the Bill is likely to be signed without delay by President Carter.

The first test for the Bill, entitled, the Depository Institu-tions Deregulation and Monetary Control Bill, is likely to come on Tuesday, when one of its architects, Congressman Henry Reuss, will move on the House floor that its passage be speeded by debarring unrelated mendments.

In detail, the Bill as agreed last week by experts in both Houses of Congress would: 1 Permit the Federal Reserve

Board to impose reserve requirements on transactions accounts, such as checking accounts, at all banks as well as at other depository institutions, including savings and loan associations and mutual savings banks. Permit Federal law to pre-

empt state law in setting "usury ceilings" on a wide range of loans. Usury ceilings, which exist in many states, limit the amount of interest lenders can charge. Permit Regulation Q of the Federal Reserve Board, which limits the amount of interest that can be paid on time and savings deposits, to be phased out over a six-year period. Permit expansion of powers

for private house purchase. The new powers, including, for example, permission to put up to 20 per cent of their funds into such things as consumer loans will permit them to develop more like

family banks." At one level the proposed legislation marks the beginning of a far-reaching adjustment of the U.S. financial system to inflation.

New legislation has been made essential by the accelerating rate of inflation, and the impact this had had in making existing regulations out of date and changing the structure of the U.S. financial system. In addition. changes in banking technology, including computerisation, have begun to make regulatory reform necessary.

proposed legislation amounts to an important victory for the Federal Reserve Board, since it holds out the prospect of solving the Fed's membership problem The central bank feels that

of savings and loan associations and other thrift institutions. Hitherto these institutions weekend and on October 6 tions have primarily been in that it gives the Fed addi-engaged in mortgage lending tional levers for controlling credit.

The Fed has complained that the growing number of com-mercial banks which have been giving up voluntary member-ship of the Fed system has begun to weaken its ability to conduct monetary policy and fight inflation.

Banks have been leaving primarily because of the increasing cost of maintaining non-interest-bearing with the Fed, a cost which has risen as interest rates increased. By giving the Fed power to impose reserve requirements on non-members. whether banks or not, the incentive to quit the system would be sharply reduced. Fed membership as such would remain voluntary under the Bill.

In an important related move the Bill proposes an absolute reduction in level of reserves which banks must maintain

> Background. Page 2 Continued on Back Page

# Give nuclear plants green light, says Think Tank

BY MARTIN DICKSON, ENERGY CORRESPONDENT

THE GOVERNMENT is being The cherts show the two constraints on the European Monetary System exchange rates. The upper grid, based on the weakest currency in the system defines the cross-rates from which no currency (except the lire) may move more than 2'a per cent. The lower chart gives each currency's divergence from its "central rate" against the European Currency Unit (ECU), itself a basket of European currences. advised by its Think Tank to build two British-designed nuclear power stations whose future has been in doubt for several weeks. Ministers are likely to reach a decision today.

The recommendation follows an urgent two-week review by the Think Tank-the Central Policy Review Staff-of plans to build new advanced gas-cooled reactors (AGRs) at Heysham in Lancashire and Torness in

Scotland. The CPRS is understood to have rejected the idea of postnave rejected the idea of posi-poning or cancelling the stations. It suggests that the best course would be to press ahead with construction this

help establish the country in "international shipping." Back This verdict will be greeted with relief by the nuclear industry, which is relying on the two AGRs to tide it over the

next three years until work starts on an American-designed pressurised water reactor—the first station in a major nuclear programme expansion nounced by the Government in

Plang manufacturers had been warning that long delays on the AGRs would mean substantial redundancies and would under-mine still further the health and confidence of a sector which has not had a nuclear order

since 1971. Ministers now seem certain to endorse the Think Tank's advise to go ahead with the AGR's, but doubts still remain over the

timing of the orders.
The Central Electricity
Generating Board has warned the Government that if its cash limits are set too low it might have to postpone some capital projects, among them the Hey-

This, coupled with new CEGB figures showing a significant

sham station.

reduction in electricity demand forecasts to 1986-87, are what seem to have prompted Mrs. Thatcher, the Prime Minister. into ordering the Think Tank's

However, having first raised the possibility of delays at Heysham, the electricity supply industry has in recent weeks insisted that the AGR programme should go ahead as scheduled.

Failure to so shead, the Think Tank felt, would encourage the anti-nuclear lobby, weaken the British nuclear plant industry and wind-down AGR capability while uncertainty still surrounds the introduction of the PWR station.

Pym in China talks on arms sales. Back Page

# **Further** £25m for **Inmos** likely

UNITERSITY OF JUNDAN

MINISTERS are believed to have agreed in principle to a scond £25m tranche of Govern ment money for Inmos, the semiconductor company backed by the National Enterprise Board. But some Cabinet members. including, it is thought, the Chancellor, are still arguing strongly that Inmos should be persuaded to build its first factory in Cardiff, rather than Bristol, as it wants.

Ministers from the Industry and Wales Departments are believed to have been told to sort the matter out among

The argument is whether Government money should be used to finance development in an area where jobs are not scarce, or whether the Government should abide by its policy of non-intervention.

Ministers are inevitably in-volved in the decision on location. The Government has to decide whether Inmos should have an industrial development certificate to build a factory

One compromise suggested is that Inmos should be allowed to build its first factory in Bristol, on condition it builds later ones in assisted areas. Inmos has said it is prepared to give unqualified commitment to this. John Lloyd writes: The first

mass production semiconductor plant in the UK is likely to be that established by a joint ven-ture between the General Electric Company and Fair-child of the U.S. It is expected to begin testing initial products in October, following a board meeting next week to approve the pext tranche of investment.

The plant is being con-structed at Neston, in Cheshire. The GEC-Fairchild board will he asked to approve expendifure on test equipment and the first production equipment. Some £4m of the £10m committed by the partners has been called down so far. In addition, a maximum £7m of Governmen aid is available. Engineers have already been

ecruited and are training with the U.S. company. Fairchild. which concluded the deal as an independent company, since been taken over Schlumberger, the energy and that the new owner was cooling on the joint venture were firmly squashed by GEC.

The U.S. company is rela-tively weak in metal oxide silicon (MOS) technology, a type of semiconductor which is Continued on Back Page

## hit banks and oil industry BY PETER RIDDELL, ECONOMICS CORRESPONDENT THE BIG banks and oil com-Chancellor, in a speech likely panies may face higher tax to last more than 90 minutes. The main prorities will be bills after the Budget. Ironic-

be aimed at the allegedly large windfall profits these sectors cial conditions permit, a cut in have made as a result of higher the level of interest rates.

Consequently the public interest rates and rising oil ector borrowing target in 1980-The banks would be affected 1981 is likely to be not far from £8bn compared with a by proposals to limit the scope for deferring tax payments as

a reduction in the rate of price

probable outcome of just under £9hn in the current financial This is likely to mean a broadly neutral budget in tax terms after taking account of specific cuts in the volume of spending and a cash limits

squeeze together amounting to roughly £17bn. Additional sales of public sector assets beyond the £500m so far promised are probable. Two major innovations will

he the publication on Budget day of the annual expenditure White Paper giving details of plans up to 1984 and the first appearance of a medium-term financial plan. The latter has been the subject of intense debate within and between the Treasury and the Bank of England. This may have affected the form of the forward commitments. But targets for the progressive reduction of the money supply are generally expected in the City. Geoffrey

reversed when interest rates announce when the so-called corset restrictions on the growth of the banks' operations will end and the monetary target for the next 12 months. Editorial Comment. Page 16. Lex. Back Page

## DETAILS OF THE MEASURES

The Budget will include: personal allowances. The key question is whether this will be sufficient to match the inflation rate. Added flexibility is expected to be provided by the abolition of the 25p in the pound reduced rate band of income tax.

 Indirect taxes: Increases are likely in the duties of tobacco. alcohol and gaming with a more than proportionate rise in petrol duty expected. Capital taxes: The first stage

of the promised simplification and reduction of the burden of capital gains and capital transfer taxes and a reduction of the investment income surcharge

surcharge has been considered. • Income Tax: An increase in • Energy: Abart from an increase in octroleum revenue tax, some levy on the revenue from higher gas prices is likely. · Social security: Unemployment and some other short-term benefits may be increased by less than the expected rate of inflation though pensions will rise in line with prices. There is considerable pressure for an increase in child benefit matching the inflation rate (£1.20) rather than the 75p rise under consideration.

expected to help small businesses (setting up enterprise zones) and to boost employee share and profit participation • Industry: Special relief for and general share ownership. companies facing a temporary Overseas Debts: Further fall in stocks has been fore early repayments may be shadowed and a cut in the announced, though they have employers' national insurance no economic significance.

Misrellancous: Measures

# U.S. seeks Soviet trade curbs

BY JONATHAN CARR IN BONN

THE U.S. is proposing to its allies new and stronger restrictions on trade with the Soviet Union as a result of Moscow's invasion of Afghanistan.

• PETROPERU, Peru's State It is understood in Bonn that oil company, is preparing for negotiations for exploration and Washington wants to extend the category of goods subject to development risk projects with five international groups. Page 3 export embargo by the West on the grounds that they could he of strategic importance to the is reported to be discussing the possible collaboration with the UK, France, Spain and West Germany in the Airbus Indus-trie consortium. Page 3

It would like also to see an upper limit set on the volume of deliveries in a broad range of industrial products, which might involve a transfer of technology to the East.

through which Western nations jointly decide what restrictions —endors should be placed on exports of Helmat

potentially sensitive products to Washington earlier this monthreached Bonn this weekend. But dvance reports suggest that if implemented in full, the proposals could seriously undermine trade with Moscow not only by West Germany but also

by France. For this reason, German Government sources suggest that, although the U.S. proposals are bound to be studied carefully, there seems little prospect that they will be adopted in full.

The British attitude to the ology to the East. new move by Washington is These proposals are con-awaited with special interest tained in a detailed list which here, in view of the particular the U.S. wants considered in enthusiasm with which Britain the so-called Cocom Committee supported the U.S. stand at the co-ordinating hody start of the Afghan crisis.

West Germany's own position endorsed when Chancellor Telmut Schmidt visited visited

the USSR and Eastern Europe. is that it will support a tighten-The detailed list has not ing of the rules governing export of strategic goods provided all Western allies do the same.

It will not, however, break the terms of agreements already signed with the Russians.

Behind the Bonn Government's stand, among other factors, is fear the Russian retaliation if the West Germans break existing accords. For example, Bassia might cut deliveries of her natural gas, which last year covered 16 per cent of Germany's needs.

There is also an obvious rejuctance to endanger Eastern trade, huilt up with difficulty over the years, unless the case for doing so on security grounds is clear and the embargo cannot be circumvented by

# NatWest reveals income details

BY MICHAEL LAFFERTY, BANKING CORRESPONDENT

NATIONAL WESTMINSTER costs, bad and doubtful debts, bank chairman, says the addiits gross income and expendi- year.

ture. The disclosure comes in NatWest's 1979 annual report, published today, as part of the it is not covered by the audit per cent up at £1.8bn.

NatWest is giving share-holders a breakdown of interest received and paid, investment income and other income, ture costs were up 25 per cent banks have yet in publish information on other important personnel costs, establishment

Bank has become the first of the other expenditure and interest tional information is part of major British clearing banks to on loan capital. All the figures NatWest's "policy of disclosing disclose summarised details of are compared with those for last The disclosures show that

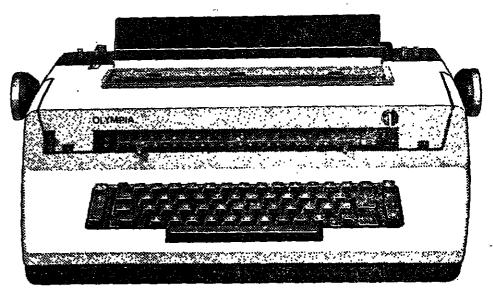
gross interest income rose by £1bn, or 61 per cent, to £2.7bn in 1979. Interest payable, on the other hand, was more than 70 Both of these figures reflect

substantially higher interest rates which prevailed last year,

greater details about the group's affairs." The move comes at a time

when leading central banks and accountancy bodies around the world are distributing a controversial discussion paper on bank accounts. NatWest disclosures bring the bank into line with the paper's proposals for data about income and expenditure. However, NatWest particularly in the UK expenditure. However, NatWest NatWest's personnel expendiand all the other major British Mr. Robin Leigh-Pemberton, aspects of their business.

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to miss!

Italian Cabinet

to form

Republic 35 years ago -

This follows the decision of

the Central Committee of the

Socialist Party, which holds the

key balance of votes in the Italian Parliament to give Sig.

Bettino Craxi, its secretary-general, the go-ahead to nego-

tiate the formation of a coali-

tion with the Christian

Despite the deep divisions

within the Socialist Party, President Pertini, himself a

Socialist, appears to have leaned on his party colleagues to adopt a constructive attitude to the

President Pertini emphasised

at the weekend that he wants

a quick solution because of the

repercussions prolonged uncer-tainty could have on Italy's

international commitments.

These include the Presidency

Democrats

# Israel to allow Jewish school in Arab city

BY L DANIEL IN TEL AVIV

decided to permit a seminary again in Alexandria on Thursand a school to be set up in two day. Jewish-owned houses in the Hebron, on the occupied West Minister. and both deputy not have come at a worse time. Bank. The decision will strain premiers — Mr. Yigael Yadin Three of the Cabinet's "hawks" still further Israel's relations (Democratic Movement) and favoured postponing it again Administration

abstentions. Mr. Josef Burg, the come into effect until the comOn Friday, Mr. Begin received Interior Minister, Israel's chief mittee approves it.

Among those opposed were in favour, six against, with two the decision will not, therefore, recently in Cairo and Washing-

Minister, would lose majority in the Knesset.

A decision had been postcentre of the Arab town of Mr. Ezer Weizman, the Defence poned several times and could with the West Bank Arabs, with Mr. Simha Ehrlich (Liberals), but Mr. Begin insisted on a Egypt and with the U.S. Mr. Yadin intends to appeal to vote. This insistence may well dministration. the Knesset (parliament) have been an emotional The vote was a narrow eight foreign affairs committee, and reaction to the criticism voiced

ISRAEL'S CABINET yesterday talks, before negotiations start Mr. Menahem Begin, the Prime deut Sadat is reported to have some glimmer of progress. Mr. singled out Israel's failure to Sadat is scheduled to see Presireply to his proposal for dent Carter on April 8. and autonomy to be introduced in will remain in the U.S. while stages, beginning with the he holds talks with Mr. Begin.

Gaza Strip.
Roger Matthews adds from Cairo: Egypt has stepped up its will be solely responsible if the diplomatic offensive against negotiations collapse. Israel, with increasingly blunt Egypt insists that it warnings from President Sadat the deadline for agreement on on the consequences of failure the structure and powers of an in the Palestinian autonomy autonomous Palestinian authtalks, due to be concluded by

May 26. Mr. Sadat is understood to megotiator in the autonomy talks and a senior National Religious meeting, that he may have to Party member of the Cabinet, reconsider his participation in did not participate since he had to receive Mr. Sol Linowitz, the senior Notice of the Cabinet, reconsider his participation in the Government. If the Liberals to receive Mr. Sol Linowitz, the senior National Religious meeting, that he may have to Anwar Sadat of Egypt. which accused Israel of dragging its feet in the autonomy negotiation. The text of the letter has in Washington next month, if the Liberals to receive Mr. Sol Linowitz, the senior National Religious meeting, that he may have to Anwar Sadat of Egypt. which accused Israel of dragging its feet in the autonomy negotiation. The text of the letter has in Washington next month, if the Liberals to receive Mr. Sol Linowitz, the senior National Religious meeting, that he may have to Anwar Sadat of Egypt. which accused Israel of dragging its feet in the autonomy negotiation. The text of the letter has in Washington next month to receive Mr. Sol Linowitz, the senior National Religious meeting, that he may have to Anwar Sadat of Egypt. which accused Israel of dragging its feet in the autonomy negotiation. The text of the letter has in Washington next month to receive Mr. Sol Linowitz, the senior National Religious meeting, that he may have to Anwar Sadat of Egypt. Which accused Israel of dragging its summit meeting with President summit meeting with President in Washington next month of the literature of the letter has the may have to a long message from President meeting with President summit meeting with President in Washington next month of the literature of the letter has the may have to a long message from President meeting with Pr to receive Mr. Sol Linowitz, the or the Democratic Movement tions. The text of the letter has in Washington next month, if stick to their view the U.S. chief negotiator at the were to pull out of the coalition, not been published, but Presi- the earlier bilateral talks offer merely a target date.

Mr. Sadat has said repeatedly

ority on the occupied West Bank and Gaza Strip. Senior Israeli officials, however, con-

# Egypt insists that May 28 is

in the past week that Mr. Begin

## OECD talks | Cossiga asked review oil cost impact

By David White in Paris

SENIOR ECONOMIC and energy officials from the principal countries of the Organisation for Economic Co-operation and Development studied means for joint action to smooth out the impact of sharply fluctuating oil prices on national economies at a meeting at Versailles over the weekend.

The economic officials agreed that adjustment of national energy prices in line with crude oil costs was the most appropriate way of controlling consumption, Mr. Emile van Lennep, the OECD's Secretary-General

Delegates indicated that the U.S. oil import fee announced ten days ago as part of President Carter's economic package had been

favourably received. The meeting, held at Mr. Van Lennep's initiative, was the first of its kind, bringing together those responsible for both macro-economic policies.
Participants included Mr.

Charles Schultze, chairman of President Carter's Council of Economic Advisers, Dr. Ulf Lantzke, executive director of the International Energy Agency (IEA), IEA board chairman, Mr. Niels Ersboell, and representatives from the seven leading Western countries and some smaller OECD

## Fighting dies down in Chad capital

By Our Foreign Staff

A FRAGILE ceasefire was in force last night in N'djamena, the capital of the central African republic of Chad, after a day of bitter fighting. according to reports from the

city.
Fighting between rival
Moslem factions loyal to the
Prime Minister Hissene Habre and President Goukoni Oueddel broke out at dawn and went on until late in the morning. Cannon, mortar and

machine gun fire was heard. At the same time, U.S. officials in Washington said American diplomats and their dependants should leave the country as soon as there was a full in the fighting.

The continued fighting has shown how little has been achieved since the Lagos accord was signed last year. The agreement signed be-tween all 11 political and military factions provided for a government of national union, a demilitarised 20ne around N'djamena and a neutral pan-African force.



President Pertini: appears to have leaned on Socialists

of the European Council, and Sig. Filippo Pandolfi's chair-manship of the International Monetary Fund's Interim Com-mittee in the late spring are another pressure on the poli-tical parties to resolve the

Although the Socialists are likely to press their demand that a Socialist should be Prime Minister in any new coalition government, the Christian Democrats are expected to appointing Socialists to key Cabinet posts, and possibly to reject this, but may agree to a Socialist deputy Prime Minister in a future coalition.

## **Hungary Congress opens**

BY PAUL LENDYAI IN BUDAPEST

Party Congress, which begins in a Communist country. here today, is expected to re- and agricultural growth targetaffirm the moderate political last year. line of Mr. Janos Kadar, the party leader, and to approve continuation of the country's daring economic re-

Hungarians are confident that Mr. Andrei Kirilenko, the Soviet Central Committee Secdomestic policy, and will pay sibly Mr. Imre Por a personal tribute to Mr. Minister of Culture.

Kadar's leadership. The Congress, which will ast until Friday, will be a low-key. working conference in tune with the sober and somewhat depressed mood in Hungary. where prices rose by 9 per cent centres

THE HUNGARIAN Communist last year, a rate unprecedented

No sweeping changes in the leadership are likely. Some already retired politicians, formally still members of the rui-ing Politburo, may be replaced. Likely candidates for promotion to the Politburo are Mr. Feranc Havasi, the Central Committee Soviet Central Committee Secretary who heads the Soviet delegation, will publicly endorse Hungary's foreign and dorse Hungary's foreign and will pay sibly Mr. Imre Pozsgay.

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# Iran lawyers in Panama for Shah's extradition deadline

BY SIMON HENDERSON IN TEHRAN

A GROUP of lawyers, believed said to be cancerous.

He gave no further details of U.S. hospital in the Canal Zone) statement from the local to be French, have arrived in In Tebran at the weekend, the allegation but Dr. Kissinger it would have a disastrous revolutionary quards said they Panama to put Iran's case for Mr. Sadeq Qotbzadeh, the and Mr. Rockefeller are familiar effect in Iran and would prower investigating the possithe extradition of the former Iranian Foreign Minister added targets for political condem-Shah of Iran. The Iranian extradition request has to be fraction request has to be he said that Dr. Henry ing the Shah to enter the U.S. formally filed today — 60 days after the original notification. Kissinger, the former U.S. last October—an event which after the original notification.

President Carter's chief of staff. of the Chase Manhattan Bank, Tehran. is also in Panama, where he is were engaged in a plot to thought to be sorting out argu-ments over where the Shah has mainian territory and thus foil

extradition proceedings when

surgery to his spleen, which is Iran's attempt at extradition.

considered influential in allowing the Shah to enter the U.S. Mr. Hamilton Jordan, U.S. David Rockefeller, the chairman U.S. embassy and staff in

Mr. Qothzadeh said he Because of the Iranian New thought that if the Shah was Year holidays, no official deremoved from Panama (imply-tails of the fire or its affect on

long the process of freeing the embassy hostages. In Iran itself, a mystery fire

was reported on Saturday morning at two oil wells at Ahwaz, the main town in the south-western oil-producing Khuzestan Province.

ing out of the country or to a oil production were available. A Iraq.

deliberately. For many months now. Iranian oil pipelines have sabotaged at a rate of about one a week. If it is sabotage this would be the first time oil wells them-

selves were affected. The sahoteurs are believed to be local Arab separatists acting with

## Reform of U.S. financial system planned BY STEWART FLEMING IN NEW YORK

THE DEPOSITORY Institutions have Deregulation and Monetary events. But the acceleration in Control Bill represents the first inflation has begun to result in cohesive attempt by the Congress to reform the U.S. banking and financial system in order to take account of the distortions and changes which have accompanied the rise in the inafition rate over the past decade. The effort has been the particular preoccupation for and other lenders have risen, the past year or so of Congress-man Henry Reuss, Chairman of the House Banking and Currency Committee.

Partial attempts to deal with specific problems have been made. For example, in June banks, thus eliminating their 1978 the Federal Reserve incentive to lend. Last Decemauthorised the issue by banks and savings institutions of six-override until March 31 state month savings certificates paying usury ceilings on mortgage The aim was to try to ensure that funds did not flood out of the banks and savings and loans urgent. associations as interest rates elsewhere in the economy rose imminent expiry of a tem-It was feared at the time that porary stay, until March 31, such an outflow would hit the

housing industry. interest rates have risen to such country

such distortions of the financial system that the need to act has

become overwhelming. These problems include a quickening in the pace at which banks have begun to leave the Federal Reserve System.

meaning that in some states usury law ceilings limiting the rate of interest which can be charged on consumer and in some cases corporate loans, are below the cost of money to the ber, Congress passed a law to rates. The expiry of that law this week has been one factor making action in Congress

Another court ruling that outlawed automatic trans-In the event, inflation and fer accounts. Banks across the established such

deposits.

From a political standpoint he elimination of these to earn interest on checking or demand deposits, would clearly ton's politicians to the voters

In part, similar considera-Interest rate costs to banks account for the decision to phase out Regulation Q interest rate ceilings on ordinary savings accounts. A move to give savers a better deal by allowing them to receive more than 51 per cent

To ease the increased cost burden from removing Regulaon regular savings accounts is tion Q, the change is to be clearly politically attractive.

> It has also become important in terms of the structure of the financial system. Savings institutions and banks have begun to lose deposits to the rapidly growing money market mutual funds, hence the efforts of the Fed last week to curb the fund's growth by imposing a non-interest bearing reserve requirement on them. In the past year, the assets of the funds have risen from \$10bn to over \$60bm.

been overtaken by effect to pay interest on will give the banks and savings institutions greater flexiblity in attracting deposits and com-peting. But a major problem is that permitting savings in-stitutions, in particular, to pay time when some 70 per cent of the \$700bn of assets are invested in home loans earning rates of interest fixed at 10 per cent or

less. In the U.S. (unlike the UK, for example), most home

loans are made on fixed terms

carried out over a period of six years. In addition, however, the thrift institutions are to be allowed in a number of ways to improve their services and potentially the earnings of their assets. They will be allowed to invest one-fifth of their assets in consumer loans and

Eyen more far-reaching change seems to be needed, such as permission to issue mortgages with variable interest compromises which have been Eliminating Regulation Q rates. But political opposition struck are satisfactory.

corporate debt. and they will be

able to issue credit cards.

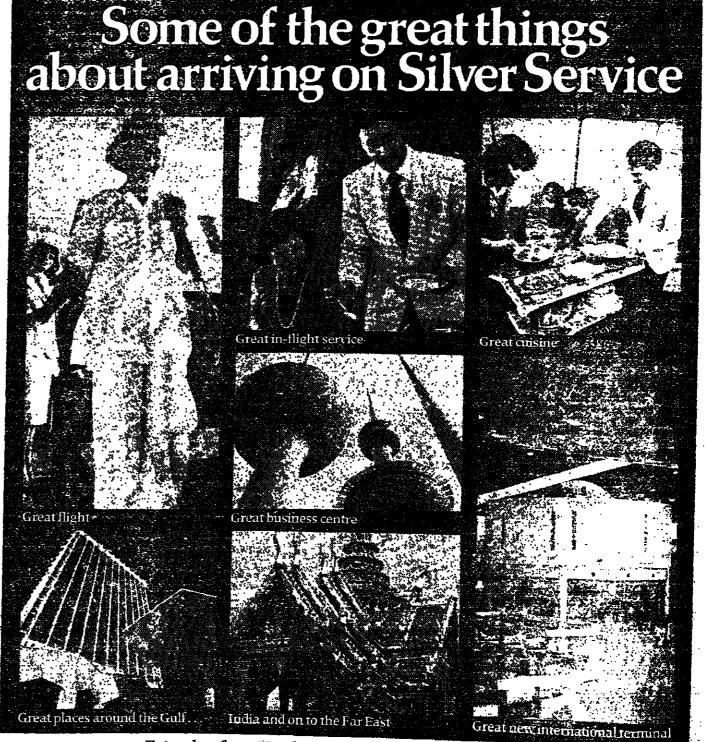


Congressman Henry Reuss: preoccupied with reforms

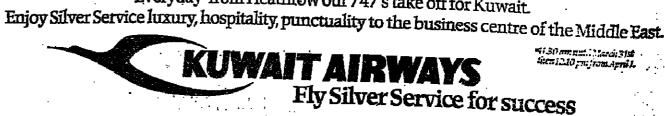
to that proposal appears to be unlikely to weaken. Clearly, however, the changes being proposed will alter the balance of competition between savings and loan associations commercial banks. Each side seems to feel that the

heights that narrower concerns accounts which permit them in THERE'S PLENTY OF ROOM TO GROWAT WREXHAM If you want to grow big, Wrexham's the place to do it. There are none of the tight restrictions of overcrowded and costly cities Smart firms like G.K.N., Kelloggs, Metal Box Company, Continental Can, E.R.F., Jaegar, Lego U.K. Ltd., J.C.B., Kaiser Aluminium and Tetra-Pak are, between them, investing over £100,000,000 in the Borough. They've already appreciated what Wrexham has to offer: ★ Excellent industrial relations record. \* Rent free periods in advance factories. \* Easy access to major markets. \* Special Development Area and E.E.C. financial Welsh Development Agency assistance.

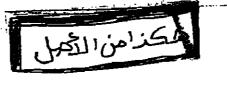
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Mitsubishi

steel mill

for China

By Richard C. Henson in Tokyo

MITSUBISHI Heavy Industries

(MHI) has won the Y85bn

(£155m) contract to construct

a hot strip mill at China's

new Baoshan steel mill com-

plex under development near Shanghai with the co-opera-

he plant will be capable of

producing 4m tonnes of con-

tinuous 80 inch steel hoops

annually in a single line. Shipment of the equipment

will begin next year and con-

tinue for four years, Payment

will be on a deferred basis

in five annual instalments after delivery, half in dollars

and half in yen. Jippon Steel has almost

tion of Nippon Steel.

ITALIAN aerospace is reported to be industry talks with Airbus consortium responsible for the construction of the A-300 and A-310 Airbus aircraft, which could lead to Itsian collaboration in the joint better financial conditions than project between Britain, France, Spain and West Germany.

Airbus Industrie is understood to be interested in subcontracting construction of some of the aircraft's parts to Italian aerospace groups. This would ease some of the current production difficulties of the Aurbus programme. It would also represent some competition for Italy whose national airline, Alitalia, has recently ordered nine A-300 aircraft. The talks are still thought to be at an early stage, although some of Italy's smaller aircraft manufacturers have apparently already expressed considerable interest.

The larger Italian serospace supporting equipment from Me-roups, like the state-owned Donnell Douglas at a cost of groups, like the state-owned Aeritalia concern now working on the Boeing B 767 medium range passenger carrier, are also understood to be interested, but are reported to be seeking those so far offered for possible sub-contractors.

But the current talks could eventually lead to broader collaboration between Italian aerospace companies and members of the Airbus consortium. Sabena Airlines of Belgium and Varig Airlines of Brazil have signed an agreement that will pave the way for final nego-tiations over the inauguration of flights between Brussels and Rio de Janeiro, Diana Smith writes from Brasilia.

Robert Gibbons adds from Montreal: Canadian Pacific Airlines has ordered two additional DC-10, series 30, airlines and

over CanS132m (£51m), CP Air is currently flying one DC-10 aircraft and three more are due to enter service this year. Michael Donne Aerospace cor-

respondent adds: Airbus Industrie, in which British Aerospace has a 20 per cent stake, is aiming to sell at least another 60 aircraft this year, Last year it set itself a sales target of 100 aircraft and actually sold 132.

Several further sales Europe, the Middle East and Africa are now in negotiation and the group hopes to announce new contracts soon. A senior sales executive said they were confident of reaching the 60 aircraft target in the coming months. In the meantime, the group is planning to raise the production rate on the existing types of Airbus to meet the ris-ing demand.

# First dollar export credit signed

BY OUR ROME CORRESPONDENT

Italian state export credit agen- the project is estimated at about cies, SACE and Mediocredito, \$312m for the state electricity utility

The of Bogota in Colombia.

The loan will finance the ex-

\$55m loan, backed by the Colombia. Total investment in

The loan is the first under the new system whereby the new port from Italy of equipment Italian export credit agencies and services manufactured by allow Italian exporters to bid subsidy from Mediocredito Cen-

Morgan Grenfell has finalised the Cundinamarca region of competitiveness with other OECD countries.

The ten-year \$50m loan to the Bogota state electricity utility fixed interest rate, for which Morgan Grenfell will receive a the Brescia-based ATB group in dollars for international contrale, the Italian state export for a hydro electric project in tracts, which improves their financing agency.

## Dutch gear system interests car makers

By Charles Batchelor in

THE LINKS established between Van Doorne Trans-missie (VDT), Flat and Borg-Warner have led to increased interest by European and U.S. car makers for the Dutch company's automatic transmission system.

VDT had established contact with nearly all European car makers before it linked up with the U.S. and Italian companies but the latter contacts have now been increased while additional companies have joined according to Mr. E. Hamstra Pik, VDT's managing director.

· However VDT said it could not comment on Dutch Press reports that Borg Warner is to start making 50.000 gear boxes a year in the UK in 1983 (including the Dutch company's transmatic system. The gearboxes are reportedly for use in a new model of the Fiat Strada.

Scientific institutes, notably large institute in West Germany, have also taken an increased interest in VDT's transmatic system.

Borg-Warner and Fiat each agreed in December 1978 to put up F1 14.4m (\$7m) to acquire a 24 per cent stake each in the share capital of VDT, which has been doubled

# Peru ready for exploration deals with foreign oil concerns

PETROPERU, THE State oil company, is preparing to start is Mapco of the U.S., which has negotiated contracts is connegotiations for new exploration been trying to close a and development risk contracts, secondary recovery contract mainly in the jungle where well with Petroperu on the northover half of Peru's oil is west coast for the past two produced, with five inter-years, national groups from which it. This says it has received letters of at the same time as finance

with Petroperu and a service contract in 100-year-old oil fields on the northwest coast; Royal Dutch Shell, which is interested in exploration and development contracts in the central southern jungle; Superior of the U.S., which is interested in the jungle region; as well as a consortium formed by Allied Chemical and C. and K. Petroleum of the U.S., with a local seismic company called Sismica Sociedad Anonima.

BY OUR AMSTERDAM CORRESPONDENT

Dutch chemicals group Akzo, of the five types of Arnitel

Germany.

ENKA, the fibres division of the

has withdrawn from sale one

version of its product Arnitel

over which it is engaged in a

patents battle with Du Pont.

Enka said it has done so to

avoid exposing its customers to

the risk of claims for damages.

This development has come ntent. officials said that Belco The companies include Husky Petroleum and Occidental of Canada, which is interested Petroleum have reached agreein a joint venture in the jungle ment in principle on a new production split and tax deal for their contracts which are currently being renegotiated.

The Belco deal is, apparently, that the traditional 50-50 production split will continue, but cent commitment commission. that the contractor will pay corporate income taxes on its viously paid from Petroperu's share of the oil.

in the UK, France and West

This withdrawal does

Enka has only withdrawn one mean ENKA accepts Du Pont's

which it is currently test market patent on the thermoplastic ing and has only taken this elastomer, which Du Pont sells

action in the Netherlands. Sales as Hytrel. Enka has aiready

of the other four types are con-tinuing as are sales of all types declare the Du Pout patent null

The other interested company a formal announcement on residered unlikely before the middle of April.

> Petroperu is soon to receive a recently-approved \$32.5m World Bank loan which is to be applied to a \$50.7m project mainly to secondary recovery operations in the northwest fields and also to overcome technical problems in the state oil company's jungle

The loan is to be repaid in 17 years with three years grace at 8.75 per cent plus 0.75 per

Peru has moved from a net oil importer to a self-sufficient oil-producing country over the jungle oil production, mainly A similar agreement is ex-from Occidental Petroleum. It pected with Occidental Petro- is predicting oil exports this leum, but final agreement and year in the order of a \$1bn.

claim that it has infringed its

and void and replied to Du

Pont's allegations on March 21

finished the first blast furnace at the complex, which has a capacity of 3m tonnes a year. Another downstream mill contract for seamless pipe has been given to a West German company, while the contract for a cold strip mill has yet to be awarded.

Enka withdraws disputed product Reuter adds: Japan's Saudi Petrochemical Development will sign an agreement with Saudi Basic Industries early next month to start feasibility studies on building a \$1.8bn petrochemical complex in Saudi Arabia.

The studies, which will las about a year, will consider the building of a complex at Jubail in eastern Saudi Arabia by around 1986, aimed at producing petrochemical products from natural gas.

# Rise in Third World debt seen

BY BRIJ KHINDARIA IN GENEVA

THE FOREIGN debt of mic relations between rich and economic slowdown developing countries which do poor countries. The poor export earnings also not export oil will reach \$440hn. The board, in its meetings, mean that such developing not export oil will reach \$440bn in 1981, up from an estimated \$384bn this year and \$329bn

The current account deficit of such countries will reach nearly \$70bn in 1981, a rise from an estimated \$63bn this year and \$41bn last year.

These forecasts were made in a report by the UN Conference on Trade and Development (UNCTAD) whose decision-taking board met bere to retaking board met bere to re- of sharp drops in their exports are not scuttled by drought or new problems plaguing econo- to richer nations suffering famine.

terioration in prospects for the crease imports by only about economic development of poorer 4.5 per cent a year in 1980 and nations as a direct result of the 1981, compared with about 9 economic stagnation recession still dogging the The world's 30 poorest Western industrial nations and nations will achieve economic

According to report prepared for the board to 3.4 per cent next year, promeeting, the purchasing power vided that they manage to get of non-oil-exporting developing enough foreign aid to sustain countries will increase this year current import levels and they by less than 1 per cent because economic development plant

The poor export earnings also

and per cent in 1978 and 1979.

growth rates of only 2.6 per cent this year, which could rise

In the dry cargo markets

was Shell's massive

the other talking point last

\$680m purchase of 50 per cent

tenth biggest coal producer. Most of the big oil majors have

been moving into coal mining

in a big way. This should

## SHIPPING REPORT

## Grain trade strengthens

BY WILLIAM HALL, SHIPPING CORRESPONDENT

currently, is the strength of the grain trades. Last week a 53,000 ton cargo was fixed for standard voyage from the U.S. Gulf to Europe at \$20 per

This is nearly a fifth above recent rates for similar sized cargoes and is the highest level for many years. To put it in context, rates for 50,000 ton grain cargoes (U.S. Gulf/ Europe), averaged between \$6 and \$7 per ton during the period 1976 and 1978 according to the 1979 Annual Review of the Osio-based, Fearnley and

Egers Chartering Company. U.S. Gulf-Europe is one of the most important grain trading routes and last year rates averaged \$14.20 per ton. This year, they have been substantially higher, notwithstanding U.S. decision to halt further grain exports to the Soviet Union—the world's largest importer. The Russians have recently

THE MOST impresive feature reappeared in the time charter of the world's freight markets market (an indication that they want to secure tonnage before rates rise still further) and Coates and Denholm their activity describe

> Period rates have risen by up to a fifth and "handy-sized" bulk carriers can now com-\$10,000 per day and larger bulk carriers—the socalled Panamax types of 60,000 dwt-are earning up to \$15,000 per day. These rates compare with \$4,500 per day in the depths of the shipping recession 18 months ago.

the transportation problems, which centre mainly world's coal ports. H. P. Drewry, the London shipping consultants, report that seaborne trade in steam coal has more than doubled to

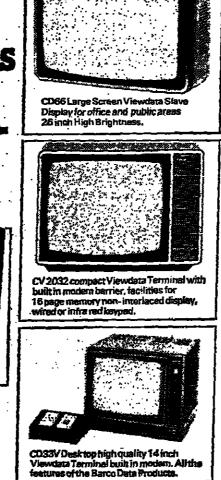
47.4m tonnes since 1973.

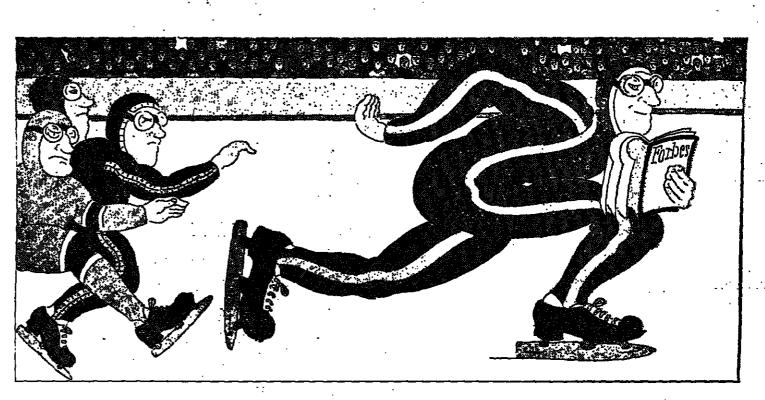
## World Economic Indicators

of A

		FOR		ANGE RESER	VES	
			Jan. '80	Dec. 79	Nov. 79	lan. 79
UK	•		18,852	18,592	18,132	15.563
U.S.			4.668	3,779	4,122	5,198
Germany			46,150	47,348	44.086	40,466
lesly		•	18.538	17,259	17.427	11,291
Holland			7.239	6.469	6,385	4.078
Belgiam		• •	4,078	4.097	4,899	2.663
japan-			74,849	16.357	16.215	28,841
France			17,818	16,100	15,197	8.711







# Forbes speeds you to new records.

## Features

Investments: The Razor's Edge. Almost unnoticed outside financial circles, this year's collapse in fixed-income securities is one of the great crashes of history. More than

Investments: Frofits Of Gloom. Business is booming for the salvation sellers. ......30

Companies: Zenith Tries Again. Can computers save a company reeling from bad luck and bad management? . . . . 32 Companies: In the acquisition of Blyth Eastman Dillon. Paine Webber may have made a classic mistake ................34 The Funds: Time To Change Tactics? Why are some funds 

Panama: A Solid Domino. And an isthmus of hope. ..... 54 The Money Men: Everybody loves to deflate Eliot Janeway. But he's been right a few more times than some of his

The Money Men: The Assets Of Academe. Managing them is tough but not impossible......62

Economists: How Chile Did It. By brutal cuts in govern-The Up-And-Comers: Lifting The Curse. Has it been done,

The Up-And-Comers: The Entrepreneurial Lesson. Lawter Chemicals' Dan Terra learned it in the nick of time ........ \$6 Gasoline Prices: If we don't tax gas, says Economist Robert

H. Nelson, OPEC will. Statistical Spotlight: The Newest Fad. It's called equ

carnings..... The Numbers Game: Equity Accounting, But is it equitable? For investors, it can be quite misleading. The Numbers Game: Minor Matters? Not really. Bureaucracy: Lifting The Burden. It's a beginning

Companies: Crash Diet. Hercules, Inc. got fat and Al Giacco is changing all that..... Companies: Look out, Xerox. Here comes Canon Companies: The Mouse And The Elephant. Nor

Energy looks like a mouse—but doesn't act like of

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BY PETER RIDDELL, ECONOMICS CORRESPONDENT

THE LARGE income-tax cuts in last June's Budget have had viewed, a fifth say they are hoped. only a limited impact on the working more hours and 71 per The Government would no public's attitude to work so far. cent say their work pattern has This is indicated by a Gallup not changed. poll commissioned for last

interviewed say the cuts enThe other 3 per cent started couraged them to work more spare-time jobs, while working hours. Some 6 per cent say the same hours in their main they are going to work fewer employment. But 89 per cent hours to earn the same money. say the cuts made no difference.

More than three-quarters say The replies appear to raise the cuts made no difference. Of the 14 per cent, 9 per cent say they are working more overtime or longer hours, and 5 per cent say they have a spare-time job to carn more money. as favourable an impact on

Of the 4 per cent professional night's BBC-2 Money Pro- workers working harder, 1 per measured merely in hours cent are working longer hours Only 14 per cent of those in their full-time employment. doubts about the Government's views on tax cuts and incentives The poll has to be interpreted with caution, but the results

doubt argue that the incentive effects will take several years to work through and cannot be for those with higher incomes.

Ministers would also say the impact of incentives will be seen by the independent Institute for Fiscal Studies. in a willingness to work, take risks, seek promotion and set up new businesses.

The impact appears to be larger than average at both bottom and top ends of the range. Roughly a fifth of those with annual incomes of less than £3,840 and of more than £10,000 say they are working

Of manual workers inter attitudes as the Government This difference is hardly sur- mum is not less than 80 per prising. A large number of cent of national income, more people were taken out of tax at the bottom end and the cuts rate. issue also contains were proportionately greatest

articles on company taxation, Common Agricultural Tax rates in the UK are well Policy, capital transfer tax and below levels where tax revenue farming, and public spending. would reach a maximum, accord-(£10 on subscription, £4 single ing to a study published today issue from 1, Castle Lane, Lon-don SW1E fDR.)

· A series of essays on the In the March issue of Fiscal Studies, its quarterly journal, Mr. Richard Hemming and Mr. ing economic growth is pub John Kay of the institute examine the Laffer curve. This lished today by the Institute of shows there is a maximum to the proportion the Government

Prime Movers of Progress: the Entrepreneur in Capitalism and Socialism, IEA Readings 23

tight cash borrowing limit of £450m on the BSC for the

coming financial year out of which finance will have to be

The profit margins of Britain's private sector steelmakers, who

make 3.5m product tonnes a

year, are also coming under heavy pressures. Redundancies

are likely in the private sector,

and the Government will want to consider what assistance, if

The unions are expected to use the NEDO report to exert new pressure for a complete

re-think about the scale and

form of assistance to both the

working capital.

any, it should give.

# common food policy

BY RICHARD MOONEY

THE EEC should replace its common agricultural policy with a common food and agriculture policy, the UK Prevision Trade Association says in a report published today. "This would bring KRC policy back more into line with the original goal of the

Treaty of Rome to bring food to the consumer at reasonable prices," says the association. It says prices should be closer to world levels with farm incomes being boosted "where necessary" by judi-cions use of subsidies.

It calls for more imports from outside the community to act as a brake on "un-bridled" expansion of Common Market production. This would belp prevent the accumulation of surpluses.

"As long as surpluses last it is preferable to use con-sumer subsidies to dispose of them inside the community rather than sell them on world markets through export re-

The report welcomes recent moves by the EEC Commis-sion to hold down price increases but says more drastic action is needed.

It also calls for more stability in the EEC's "agri-monetary" arrangements by allowing more advance fixing of export subsidies and im-

port levies.
Mr. E. J. A. Edwards, the association's president, said the report was not anti-Europe. "We are just anti-the Community Agricultural Policy as it affects the interests of the UK."

He said the association had misgivings about Britain's entry terms and added: "After seven years there has been no basic change. We have had lots of sympathy from Brussels but no action." Food traders had

effective voice in Brussels because there was community-wide association. Mr. Edwards said. A copy of the report has

been sent to Mr. Finn Gundelach, the EEC agricultural

# Navy to develop new power unit

BY DAVID FISHLOCK, SCIENCE EDITOR

THE NAVY is to spend £3m on the design and assembly of a motor, funded by the Navy, was large advanced-technology elec- built by the IRD in the early tric motor, the windings of 1970s. It is the first of its kind which will run at a temperature in the world. After an interval of minus 269 degrees C. It in which no further funds would be used as a silent propulsion plant for future sub-rekindled what IRD executives marines and warships.

The Ministry of Defence contract has been awarded to International Research and Development, the Newcastle research company, owned jointly by Northern Engineering Industries, Parsons and Vickers.

Over the next three years, a team headed by Dr. Tony Appleton plans to assemble and test a superconducting motor about 17 feet long. Liquid belium will keep its

windings at a temperature close to absolute zero-low enough for all electrical resistance to disappear. Very intense magnetic fields can be created in this way and are already widely used in scientific instruments. As a result, the motor is expected to have a performance

which could be approached only by conventional electric motors much larger in size and weight. ventional electric drive could

offer at high power

such a vessel would need to be driven by three motors of 44 megawatts each, running at 100 rpm. IRD believes its homopolar DC super-conducting motor would be substantially cheaper than conventional AC motors, the only electrical alternative at present. The company is also seeking financial support for design of an AC generator.

A small prototype of such a

believe chuld be a 10-year

programme for development of

the new marine propulsion

The research centre is co-

operating with a State-owned Canadian group, Transport

Canadian group, Transport Canada, in investigating another

marine propulsion system for giant gas tankers. They foresee a need for 200,000 ton ice-breaking tankers to bring lique-

fied natural gas from the Arctic.

Present indications are that

system.

Mr. Sidney Robeson, its Advantages claimed for DC super-conducting motors include the simplicity and robustness of design, high efficiency and a much lower cost than any congenerators much smaller and generators much smaller and present-day machines

## Call to use farm funds for industrial mobility

BY HAZEL DUFFY, INDUSTRIAL CORRESPONDENT

Federation is urging the European Parliament to vote for a debate. shift of funds from the Common Agricultural Policy to manufacturing industry. It suggests that 15 per cent of agriculture funds could be reallocated to sponsor mobility of industrial

these funds should be switched from "feather-bedding farmers and financing lakes and moun-

THE Engineering Employers' Parliament in Strasbourg for the continuation of the Budget

> The federation says: "We believe that the powerfully lobbied view of the farmers should be countered by the presentation of a practical view from manufacturing industry."

helping industrial workers move to areas where they could be productively employed already tains, to sponsor industrial exist in the regional and social mobility." has been sent to all funds. A shift in funds "would Euro-MPs in the UK to coincide raise the morale of industry and with the reconvening of the give Britain a fairer deal."

## **Engineers turn down** Finniston proposal

BY ROBIN PAULEY

GOVERNMENT-controlled British Engineering Authority, ciple for such a body to be set proposed in the Finniston up under Government control report, is emphatically rejected instead of as an effective by the Institution of Municipal instrument

The report is the result of a engineering profession set up already carried out by the in 1977 under the chairmanship profession, particularly in the of Sir Monty Finniston. It was construction group. It would

Mr. Michael Heseltine, Environ-ment Secretary, published and Structural Engineers, the today, the institution says such an authority would be a such an authority would be a misuse an engineers registration coun-of resources and relatively cil on the lines of the General expensive in terms of public Meediecal Council or the Archi-

"It is quite wrong in prin-

The report is the result of a "It would duplicate a con-committee of inquiry into the siderable amount of work to analyse the situation. with also take a very long time to particular reference to manu- implement and produce any facturing industry, and propose significant results or improveeforms. ments." says the institution, In a submission to Sir Keith which has 10,000 members.

teects Registration Council.

## **BBC** in row over records

CLAIMS BY the BBC that its from April 1, 1978. recently-announced cuts in The arrangement allows up to needle time — playing of 19 hours of review time for play-recorded music—on Radio 1 are ing records that are new due to new restrictions by releases. Phonographic Performance have been denied by the company.

There is no charge to the BBC Mr. Bert Gilbert, general for playing records in this manager of Phonographic Performance, said the cuts were changed when the arrangement due solely to "abuse" of the comes up for re-negotiation on levels of needle time agreed April 1, 1981.

## **UK-Irish** federation suggested

By Our Belfast Correspondent

ON THE eve of the annual conference of the Official Unionist Party, Mr. James Molyneaux, MP, its leader, said a federation of the United Kingdom and Ireland would be an ideal long-term solution to the ideal long-term southern lorentern Ireland stalemate. Mr. Molyneaux said: "If people faced the fact that the likelihood of a British with-drawal from the EEC is becom-ing more of a reality, then the Irish Republic might consider it appropriate to withdraw as

"In that situation, a united federated British Isles would make sense. Britain and Ireland are, and always have been, a geographic and economic unit, and federation would be the ideal long-term outcome."

Mr. Molyneaux is not expected to present his ideas to today's conference as a serious policy option.
The Irish Republic's Foreign
Affairs Minister, Mr. Brian
Lenihan. resterday urged
Britain to withdraw long standing guarantees to the Ulster Unionists about the future of Northern Ireland. He said pledges that Ulster would remain part of the United Kingdom until the majority in the province decided otherwise should be replaced by an Anglo-Irish declaration worked out in negotiations between the two

governments.

# **NEDC** studies steel practices in Europe

BY ROY HODSON

can raise in tax revenue.

The authors suggest this maxi-

GOVERNMENT thinking on the week since the strike started on future level and form of January 2, is not expected to assistance to the hard-pressed recover before 1981. Meanwhile. assistance to the hard-pressed steel industry is expected to be the Government is imposing a influenced by an examination of the practices of other European Community counties. The National Economic which finance will have to be Development Office expects to found for new plant, closures of complete the work within a old plant, redundancies, and

month.
Early evidence supports suspicions by the steel unions that some continental steelmakers are getting greater help from their governments then is generally supposed. Studies of transport costs

have proved particularly revealing. The privately owned West German steel industry will be cited in the report as receiving big subsidies in an indirect fashion through West German federal 'assistance to the rail-The British Steel Corporation, private and public sectors which has been losing £17m a British steelmaking.

NO EAST Midlands engineering been "a complete cessation of company will escape unscathed British Steel Corporation

Mr. Ashton said many saw the steel dispute as a crucial test of the Government's economic

## East Midlands warning

unless the steel strike is settled soon, said Mr. Dennis Ashton, president of the East Midlands Engineering Employers' Asso-

He told the association's annual meeting that there had British Steel Corporation supplies to many of us since before Christmas.'

# Behind the 15th largest bank in the United States stands the largest multistate bank holding company in America.

CONSOLIDATED BALANCE SHEET (in thousands)           December 34           4979         4978           ASSETS           Cash and due from banks         \$ 4.151,915         \$ 3,469,764           Time deposits, due from banks         998,942         993,056           Investiment securities         4,317,080         3,796,046           Irading account securities         27,306         271,346           Funds sold         979,938         783,707           Loans         17,353,357         15,257,544           Less: Unearned income         322,719         248,976           Allowance for loan losses         216,814         165,976           Net loans         16,813,824         14,842,592           Lease financing         496,243         302,079           Bank premises and equipment         496,457         452,030
ASSETS         Cash and due from banks       \$ 3,469.764         Time deposits, due from banks       998,942       993.056         Investiment securities       4,317,080       3.796.046         Trading account securities       27,306       271,346         Funds sold       979,938       783,707         Loans       17.353,357       15,257,544         Less: Unearned income       322,719       248,976         Allowance for loan losses       216,814       165,976         Net loans       16,813,824       14,842,592         Lease financing       496,243       302,079
ASSETS         Cash and due from banks       \$ 3,469.764         Time deposits, due from banks       998,942       993.056         Investiment securities       4,317,080       3.796.046         Trading account securities       27,306       271,346         Funds sold       979,938       783,707         Loans       17.353,357       15,257,544         Less: Unearned income       322,719       248,976         Allowance for loan losses       216,814       165,976         Net loans       16,813,824       14,842,592         Lease financing       496,243       302,079
Cash and due from banks       \$ 4.151,915       \$ 3,469,764         Time deposits, due from banks       998,942       993,056         Investiment securities       4,317,080       3.796,046         Trading account securities       27,306       271,346         Funds sold       979,938       783,707         Loans       17.353,357       15,257,544         Less: Unearned income       322,719       248,976         Allowance for loan losses       216,814       165,976         Net loans       16,813,824       14,842,592         Lease financing       496,243       302,079
Time deposits, due from banks       998,942       993,056         Investment securities       4,317,080       3,796,046         Trading account securities       27,306       271,346         Funds sold       979,938       783,707         Loans       17,353,357       15,257,544         Less: Unearned income       322,719       248,976         Allowance for loan losses       216,814       165,976         Net loans       16,813,824       14,842,592         Lease financing       496,243       302,079
Investment securities       4,317,080       3.796,046         Trading account securities       27,306       271,346         Funds sold       979,938       783,707         Loans       17,353,357       15,257,544         Less: Unearned income       322,719       248,976         Allowance for loan losses       216,814       165,976         Net loans       16,813,824       14,842,592         Lease financing       496,243       302,079
Trading account securities       27,306       271,346         Funds sold       979,938       783,707         Loans       17,353,357       15,257,544         Less: Unearned income       322,719       248,976         Allowance for loan losses       216,814       165,976         Net loans       16,813,824       14,842,592         Lease financing       496,243       302,079
Funds sold 979,938 783,707 toans 17,353,357 15,257,544 Less: Unearned income 322,719 248,976 Allowance for loan losses 216,814 165,976 Net loans 16,813,824 14,842,592 Lease financing 496,243 302,079
Loans       17.353,357       15,257,544         Less: Unearned income       322,719       248,976         Allowance for loan losses       216,814       165,976         Net loans       16,813,824       14,842,592         Lease financing       496,243       302,079
Less: Unearned income       322,719       248,976         Allowance for loan losses       216,814       165,976         Net loans       16,813,824       14,842,592         Lease financing       496,243       302,079
Allowance for loan losses
Net loans
Lease financing 496.243 302.079
Dool promote and action at
Bank premises and equipment
Customers' liability on acceptances
Other assels
Total assets
323,930,014
LIABILITIES
Deposits:
Demand
Savings
Other time
Foreign offices
Marit and a second seco
Acceptances outstanding
Notes, debentures and mortgages
Total liabilities
CAPITAL
Stockholders' equity
Total liabilities and stockholders' equity

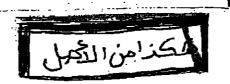
Western Bancorporation, with its 21 banks and their 842 domestic offices, is the largest multistate bank holding company in America. WBC operates in 11 western states, a prime growth area. It achieved dramatic gains in 1979. Setting a new record for the fourth consecutive year, earnings were up 28.5% over 1978. The dividend was increased in June, for the fourth time in 27 months, to an annual rate of \$1.64 a share. Four affiliate banks—United California Bank. First National Bank of Oregon, First National Bank of Arizona and Pacific National Bank of Washington—operate 34 offices abroad.

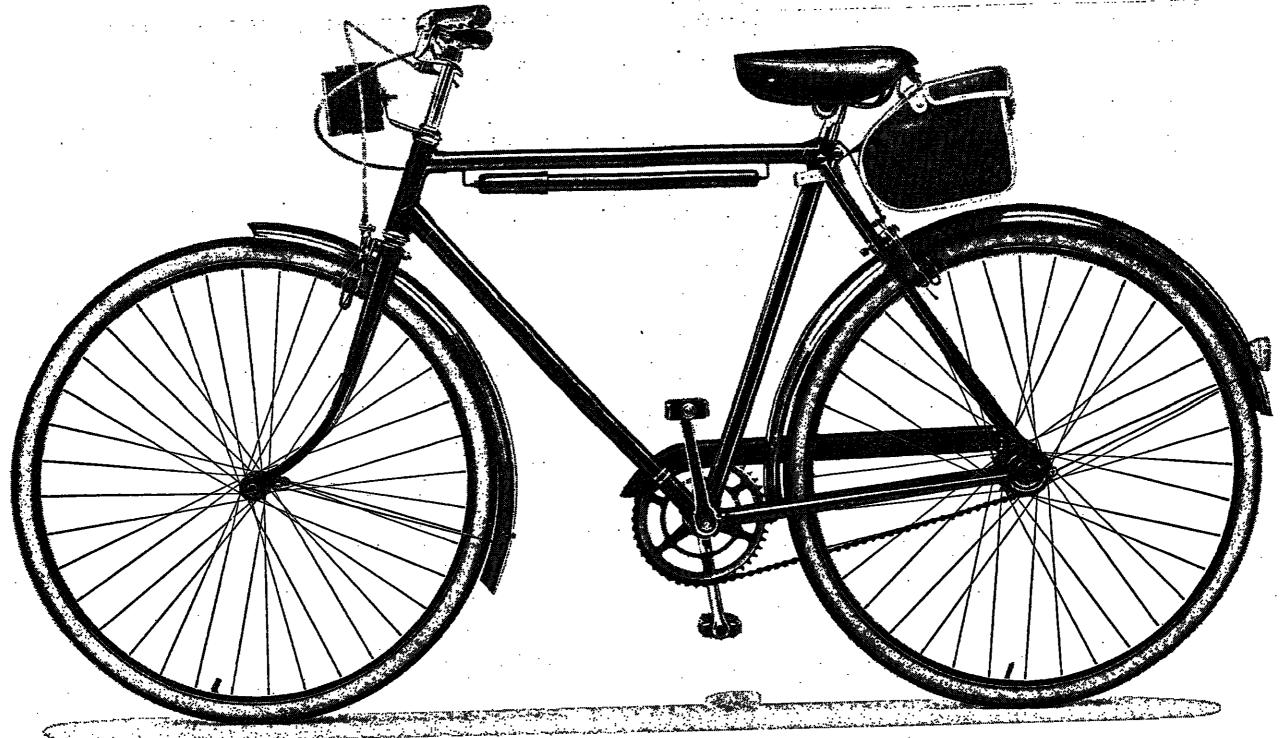
United California Bank CONSOLIDATED BALANCE SHEET (in thousands)

	Decer	nber 31
	1979	. 1978
ASSETS		
Cash and due from banks	\$ 2,353,798	3 4,878,33
Time deposits, due from banks	532,499	570.69
Investment securities	1.601.568	1,301 82
Trading account securities	22,282	264.41
Funds sold	568,245	274.25
Loans,	8,741,963	7,565,54
Less: Unearned income	99,860	61,39
Allowance for loan losses	121,978	86,75
Net loans	8.520.125	7,417,39
Lease financing	477,278	291.56
Bank premises and equipment	175,848	157.90
Customers' liability on acceptances	497,686	366.05
Other assets	317,754	257,74
Total assets	\$45,067,083	\$12,750,19
LIABILITIES		12,7 00,17
Deposits:		
Demand	\$ 4 247 800	\$ 3,633,94
Savings	1.689.944	1,729,43
Other time	3.771.796	2.738,97
Foreign offices	1.965.387	2.073,39
Total deposits	.,,,-	<u> </u>
Short term borrowings	1,061 928	10,170,21
Acceptances outstanding	498.025	1.198.26
Other liabilities	463.281	366,266
Notes, debentures and mortgages	244 397	390,305
Total liabilities	14.548.058	194,457
•	14,340,058	_12,325,500
CAPITAL		
Stockholders' equity	519,025	454.693
Total liabilities and stockholders' equity	\$45,067,083	
	- 10,007,000	\$12,780,403

United California Bank is Western Bancorparation's largest affiliate and is the fifth largest bank in California, the 15th nationwide. UCB serves the international community in 20 locations abroad, including an Edge Act subsidiary in New York and branches in Hong Kong, London, Manila, Nassau, Singapore, Taipei and Tokvo. Its network of representative offices covers Canada, South America, continental Europe, the Middle East and the Pacific Basin. UCB is the only bank with offices in all three U.S. energy capitals—Los Angeles, Denver and Houston. It serves its national and multinational austomers frough its U.S. Banking and Special Industries Divisions and serves the California market through its statewide network of 302 brondings.

For further information and/or copies of Western Bancarporation's 1979 annual and latest quarterly reports, write, phone, or telex. WESTERN BANCORPORATION; 707 Wilshire Boulevard, Los Angeles, California 90017, Telephone: (213) 614-3001 Telex: 674421 Cable: WESTBANCOR / UNITED CALIFORNIA BANK: 36-39 Essex Street, London, WC2R 3AS, England, Telephone: (01) 220-0377 Telex: 24798 Cable: UCALBANK





# Costs more to service than a new Miratior

Fiat are simply claiming that their Mirafiori range is a rugged, no-nonsense breed of car.

Rugged enough, indeed, to give a Mirafiori 1st and 3rd places in this year's Monte Carlo rally.

To help prove their point, Fiat are making an offer other manufacturers wouldn't contemplate in their wildest dreams.

If you buy a Mirafiori before May 31st, they'll pay your service bills for a total of 2 years. Or up to 20,000 miles. Whichever comes first.

And in no way does this change the other thoughtful extras that come as standard with a new Mirafiori.

You'll still receive a year's Associate

Membership of the RAC.

Still enjoy a fitted Voxson FM stereo radio. Each designed to make your motoring less of a headache.

Equally important, you'll still have the benefit of Fiat's 2 year Mastercover warranty. Covering all major parts and labour.

Write or phone Christopher Shelley at Fiat Information Service, Freepost, Windsor, Berks, SL43BS (Windsor 56702/3). He'll send you all the facts.

All you have to lose are your

service bills.

Until May 31st, 2 years' service bills are on us.

**NEW ISSUE** 

February 29, 1980



## RED NACIONAL DE LOS FERROCARRILES ESPAÑOLES

Yen Bonds Second Series (1980) Guaranteed by The Kingdom of Spain due 1990

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> The Nomura Securities Co., Ltd. Yamaichi Securities Company, Limited

The Nippon Kangyo Kakumaru Securities Co., Ltd. New Japan Securities Co., Ltd. Sanyo Securities Co., Ltd.

 Wako Securities Co., Ltd. Merrill Lynch Securities Company

Okasan Securities Co., Ltd.

Osakaya Securities Co., Ltd. Dai-ichi Securities Co., Ltd.

Yamatane Securities Co., Ltd. Bache Halsey Stuart Shields (Japan) Ltd. Koyanagi Securities Co., Ltd.

Koa Securities Co., Ltd. Marusan Securities Co., Ltd.

Mito Securities Co., Ltd. Tokyo Securities Co., Ltd. Toyo Securities Co., Ltd. Yachiyo Securities Co., Ltd. Hinode Securities Co., Ltd.

The Kaisei Securities Co., Ltd.

The Chivoda Securities Co., Ltd. Ichiyoshi Securities Co., Ltd. Kosei Securities Co., Ltd.

Maruman Securities Co., Ltd. Naigai Securities Co., Ltd. Nichiei Securities Co., Ltd.

Banco de Vizcaya, S.A.

Meiko Securities Co., Ltd. The National Tabayashi Securities Co., Ltd. The Toko Securities Co., Ltd. Vickers da Costa Ltd.

Towa Securities Co., Ltd. Utsumiya Securities Co., Ltd.

es Difference Engine c 1835, Sc

Crédit Commercial de France Credit Suisse First Boston Limited Kuwait Investment Company (S.A.K.)

Robert Fleming & Co. Limited Smith Barney, Harris Upham & Co. Incorporated Westdeutsche Landesbank Girozentrale

# Lloyd's action for £5.9m to resume

BY JOHN MOORE

MEMBERS OF the troubled zilians, which seeks to recover syndicate once headed by Mr. Frederick Sasse are resuming their legal action against the Instituto de Resseguros do Brasil, the Brazilian reinsurance group, to recover \$13m (£5.9m) in reinsurance claims.

If they are successful the amounts recovered could offset a part of the total losses of £20.2m the syndicate is facing from North American fire insurance business, computer leasing insurance claims, and insurances arranged for the enter-tainment and leisure industry.

Additional Underwriting Agencies (No. 2), the Lloyd's company which is looking after the affairs of the syndicate, has told the 110 members that lawyers Ashurst Morris and Crisp have been requested and have agreed, to pursue the action" against the Brazilians, with the utmost vigour."

Ashurst Morris had been ecting for the syndicate in its action against the Brazilian Reinsurance Institute, started at the beginning of 1978, until last November. Ashurst withdrew as solicitors at that time pending the receipt of proper instructions from all members of the

The action against the Bra-

BY ELINOR GOODMAN

Conservative voluntary workers

assembled in Bournemouth at the weekend for the party's mid-

term conference. But, compared

with the carefully orchestrated love-in last October at Black-

pool, it was a very restrained

affair, appropriate to the sombre mood of the conference.

The atmosphere inside Bournemouth's Pavilion was

Lloyd's of London underwriting claims on U.S. fire reinsurances on business produced for the Sass syndicate by a company called Den-Har Underwriters of the U.S., then came to a balt. So far the Brazilians have offered \$3m (£1.36m) to the

syndicate "in full and final settlement of claims." The resumption of the action

against the Brazilians adds to the already tangled legal affairs of the syndicate.

Because of present legal action against Lloyd's by the syndicate, Lloyd's last week decided to suspend internal proceedings against Mr. Sasse, Mr. John Scott and Mr. Thomas Turnbull, three directors of a former managing company of the syndicate, Sasse, Turnbull, and Mr. John Newman, a broker at Brentnall Beard (International). Lloyd's and a number of

underwriting agents, including Sasse, Turnbull, are being sued by 38 members of the syndicate in one action and another eight members of the syndicate in a separate action. Sasse, Turnbull has begun

third party proceedings against Lloyd's and Brentnall Beard International and Brentnall Beard Limited, the Lloyd's

Sombre mood at Conservatives'

MRS. THATCHER received her heavy with responsibility. If policy — particularly inflation, regulation standing ovation from the activists gathered there though, interestingly, they did

the activists gathered there

represented the only political restraint within the Conser-

vative Party on what Sir Geoffrey Howe could do in his

Budget this week, the Chancellor

would seem free to hand out any

amount of nasty medicine as

entirely forget the need to present the party as a compassionate one. Certainly, nobody there seemed to be expecting much good news on Wednesday.

Stoicism seemed to prevail.

Members of the audience dis-missed the party's squeak home

in the Southend by-election as

bone" among some sections of

Privately, some of the party's

long as he kept to the broad dilly-dally any longer in imple-lines of the prescription laid menting its manifesto commit-down last May and did not ments

largely predictable and merely directed at the Government demonstrating the lack of "back-inability to communicate its

more senior organisers admitted therefore acceptable, and which

being unhappy about some is always launched when the

aspects of the Government's party is in Government.

mid-term conference

## **Post Office** under fire from users

By John Lloyd

THREE BUSINESS pressure groups have criticised the Post Office for presenting inade-quately detailed accounts, and called for fuller reporting.

In a joint submission to the select committee on Industry and Trade, the Mail Users Association, the Telephone Users Association and the Association Telecommunications Users say: "The Post Office needs to be pressed to produce infor-mation which is easier to understand and which gives a more comprehensive guide to per-formance and plans than that currently available."

The groups recommend:

Publication of a range of targets to indicate the value for money provided by main ser-

 Separation of money spent on replacing telecommunications equipment from that spent on new equipment, Issuing of performance statements by regions, head post offices and telephone area

• Publication of details of the corporation's one-year, mediumterm and long-term plans. Presentation of accounts to allow easy comparison between profit, service and productivity

## Banker delayed

THE MARCH issue of The Banker has been delayed by an industrial dispute at the prin-

though, interestingly, they did not seem as worried about the

mortgage rates as they had been.

But the message from the ordinary party worker in

Bournemouth was that there should be no "U-turn" and that

the Government should not

Speakers were far more critical of the Conservative

front bench than either in the

post-electoral glow of the Black-

pool conference or in the pre-election fervour which sur-rounded last March's meeting of the central council. But the

criticism was almost entirely

policies properly - a form of

criticism which is apparently

regarded as "constructive." and

# Four groups face fair trade probe

BY DAVID CHURCHILL, CONSUMER AFFAIRS CORRESPONDEN

AT LEAST four major com- recommendations, panies face investigation by the Office of Fair Trading when the Competition Bill becomes law

next month. The four companies, first batch of at least 16 to be investi-gated by the OFT in a full year, are unlikely to be named for several weeks because of the legal requirement for enabling orders to be published before investigations are formally launched.
The OFT is completing

arrangements as to which com-panies will be probed. Since the New Year it has evaluated information about anti-competitive practices by single com-

The two most likely areas for investigation are parts of the car industry, such as component distributors or delivery com-panies, and alleged refusal of some manufacturers to supply cut price retailers. Some other areas are being studied.

Under the Competition Bill, expected to become law on April 2, the OFT will make a short investigation into any "anti-competitive" practice by an individual company. It can then refer company and alleged practice to the Monopolies and Mergers Commission for fuller investigation, likely to last six to nine months.

The commission decides if the practice is against the public interest, and if so what action to take to remedy the practice.
The Trade Secretary can froce companies to comply with these

The basic criteria likely to be used by the OFT in selecting companies for initial investigation is whether the anti-competitive practice could frustrate competition, either from existing or potential competitiors, and in subsidiary markets 25 well as the company's main market.

For example an equipment manufacturer might force customers to accept a maintenance contract as part of a sale agree-

Other areas likely to be probed include pricing policies designed to force competitors out of the market or make it difficult for new companies to

Such practices as rental-only contracts, where trade in a commodity is restricted to rental or lease terms only, are also of interest to the OFT.

Manufacturers refusing to supply retailers is probably its main area of concern at the moment. Both Tesco and Argos store groups have supplied details of manufacturers which they claim have refused to supply them because of their

price-cutting policies.

The OFT faces problems in accumulating sufficient "hard" evidence of manufacturers refusing to supply because of price-cutting. The Monopolies Commission ruled in 1970 that refusal to supply was not m itself always against the public

## Call for consumers' bill of rights

BY GARETH GRIFFITHS

A CALL for a consumers' bill of rights to cover the public sector was made at the week-end by the National Consumer Council. Its proposals would entail provisions for greater consultations, more information and a judicial system of safeguards.

Mr. Jeremy Mitchell, council's director, told annual conference of Market Research Society the Brighton, that consumers felt insignificant and powerless against the "immovable power" of public services. A bill of rights would put the public services on their toes

The Government should extend the obligation of local authorities to publish information about their services and finances to other public bodies.

The water authorities, the National Health Service and the nationalised industries should ensure that information about their aims, funding and was freely available.

and ensure a better deal for

Formal political accountability to the electorate did not ensure efficiency or equity and redress for people who suffered loss through unsatisfactory or faulty provision was often grossly inadequate. Mr. Mitchell argues that the absence of adequate redress reduced the incentive to maintain a high level of service. ·

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•	19	379	-	Price
•	High	Low		٠,
	310	200	Banco Bilbac	222
	353	204	Banco Central	246
ı	232	199	Banco Exterior	2736
i	286	200	Banco Hispano	296 217 110
	174	130	Banco Ind Cat	130
	213	154	Banco Madrid	: 54
	348	203	Banco Santander	264
•	280	157	Banco Urgu jo	154
1	285	202	Banco Vizcoya	228
	261	195	Banco Zaragoso	201
	220	100	Dragados	100
	99	58	Espanola Zinc	61
	67	49	Fecsa	<b>57</b> 2
	76	23.5	Gat. Preciados	32
		52.75	Hidrola	64 5
	. 78	52	Iberduero	53 2
		106.2	Petrolecs	106 5
	136	59	Petroliber	59
	130	107	Sogefisa	107
	82	53	Telefonica	54 2
	69.7	55	Union Elect .	òi :

## **Parliament business** this week

TODAY COMMONS—Transport Bill, remaining stages, Motions on Mineworkers Pension Scheme Redundant Mineworkers Concessionary Coal Payments Scheme. Motion on EEC document on covergence and budgetary questions. LORDS-Education Bill, report,

Consular Fees Bill, second reading.
SELECT COMBITTEES—Home Affairs. Subject: Deaths in police custody. Witnesses: Mr.

Michael Meacher MP. Association of Police Surgeons. 4.30 pm. Room 8. Public Accounts. Subject: Meat industry employment schemes. Northern Ireland Housing Executive rent and heating arrears. Witnesses: Northern Ireland Department of Agriculture and Northern Ireland Department of Environment 4.45 pm. Room 16. TOMORROW

COMMONS-Transport Bill, remaining stages. National Heritage Bill, consideration of Lords amendments, Motion on HMSO Trading Fund Order. LORDS—Education Bill, report. Highlands and Islands Air Services Bill, second reading and committee.

SELECT COMMUTTEES -Transport, Subject: European Commission's Green Paper on transport infrastructure. Witnesses. Department of Trans-port. 4 pm. Room 6. WEDNESDAY

COMMONS — Chancellor's Budget statement. At 7 pm. opposed private business. EEC document on protection of workers from harmful substances.
SELECT COMMITTEES —
Foreign Affairs. Subject: Con-

of workers from harming substances.

ELECT COMMITTEES

Foreign Affairs. Subject: Consequences of Soviet expansion for British foreign policy. Witnesses: Foreign Office, Mr. F.

Singleton. 10.30 pm. Room 15.
Energy. Subject: Government's nuclear power programme. Witnesses: Health and Safety Executive, Nuclear and Safety Executive, Nuclear Installations Inspectorate. 10.45 am. Room 8. THURSDAY

COMMONS—Budget debate. FRIDAY COMMONS-Private members'

## **WEEK'S FINANCIAL DIARY**

The following is a record of the principal business and financial engagements during the week. The Board meetings are mainly for the purpose of considering dividends and official indications are not always available whether dividends concerned are interims or finals. The sub-divisions shown below are based mainly on last year's timetable.

British Car Auction
Chambers and Fargus
Micklow (A. and J.)
Paterson Zochonis
Scortish Cities Int. Tet.
SCORTISH Cities Int. Tet.
DIVIDEND & INTEREST PAYMENTS—
DIVIDEND LA Nacion Argentina Floating

Scottish Cities Inv. Tst.
DIVIDENO & INTEREST PAYMENTS—
Banco De La Nacion Argentina Floating
Rate Notes 1986 SUS66.67
Centrovincial Estates Ln. 3 lace
Essex Water 3.5cc (fmly. 5c.pc.) Cons.
Ord. 1.75pc. 3.5pc (fmly. 5c.pc.) Cons.
Ord. 1.75pc. 3.5pc (fmly. 5c.pc.) New
Ord. 1.75pc. 3.5pc (fmly. 5c.pc.) New
Ord. 1.75pc
Hill and Smith 2.5p
Hill and Smith 2.5p
Hountriew Estates 0.7p
Mountriew Estates 0.7p
Major industrials 2p
Wason and Plate 2p
Wason industrials 2p
Wason

Metorism lov. 1st. 2. St. Mary Age. E.C., 11.30
Pleasurema. Churchill Hotel, Portman Square. W., 12.00
Updown Howest. Tst., 12, Tokenhouse Yard. E.C., 12.30
Variosee Secs. 7. Lincoln's Inn Fleids.
Whitworth and Mitchell Textorial. 61, Southpate St., Lecester, 12.00
Wrentham and Zast Denbishshre Water. Wrentham Crest Motel, 20, High St., Wretham C.200
BOARD MEETINGS—Finals:

Finals: Bambers Stores Bemrose Bernrose
Beradin Rubber
Srent Chemicals
Duffay Bitumustic
Equity and Law Ufa Assurance
Expanded Metal
Garton Engineering
Reckttt and Colman
Spirat-Sarco

Wolstenholme Rink
Interinker
Fairview Estates
Fairview Consulting Engineers
Standard Industrial
DIVIDEND 3 INTEREST PAYMENTS—
Associated British Foods Ins. 2% Sape
Barker and Dobson Ln. 5pc
Black and Docker Marker. 19 ceots
Challenge Corps. 7 cents

iengrang nomoreo waterworzo Dil. 24.

3 lapt Coron. 7.5 cents
Tropialga House Lin 4 Alact
Tropialga House Lin 4 Alact
MARCH 25
COMPANY MESTINGS—
Smk Lagun (UR), 4-7, Woodstock St.,
W. Lagun (UR), 4-7, Woodstock St.,
W. Lagun Curb, Lagun Works, Stevenage,
Heritordshire. 12.00
Drake and Scull. The Churchill, Portman
Sculare. W. 12.05
Scinburgh American Assets. 1. Charlotte
Square, Edinburgh, 2.30

below are based mainly on last year's timetable.

COMPANY METINGS—
Derby Trust. The Portman Hotel. Portman Scuare, W., 12.00
Drayton Premier Investment Tst., 117.
Old Broad St., E.C., 12.15
Temole. Bar Invest. Tist. Electra House.
When the Structure Invest Tst., 117.
BOARD MEETINGS—
Finalist
Canning (W.)
BOARD MEETINGS—
Finalist
Canning (W.)
Collins (William)
Hawley Lefsure
Lovell (G. F.)
Quick (H. J.)
Queens Moat Houses
Interints!
Geager (C. H.)
British Car Auction
Chambers and Fargus
Micklow (A. and J.)
Paterson Zochonis.

Micklow (A. and J.)
Paterson Structure
Hall Cayton St., Silven St., W.C., 12.00
Scottish American Invest. 45. Charlotte
Square, Edwhurgh, 12.00
Tendring Hundred Waterworks, Caxton
Hall, Caxton St., Sw., 12.15
Ork Weterworks, Lendall Tower, York.
12.00
BOARD MEETINGS—
Finalist
Square Schoburgh, 12.00
Feeting Hundred Waterworks, Caxton
Hall, Caxton St., Sw., 12.15
Foots Meeting Hundred Waterworks, Caxton
Hall, Caxton St., Sw., 12.15
Foots Meeting Hundred
Finalist
Square Schoburgh, 12.00
Feeting Hundred
Finalist
Fina Appleyand Cartwright (R.) Cartwright (R.) Clifford's Dairles Legal and General Group Prudential Corporation Rotork
Slough Estates
Wills (George)
Interims
A.B. Electronic Products
Bell (Arthur) pen (Arthur) Harrisons Majaysian Estates MTD (Mangula) Sirdar dar DIVIDEND & INTEREST PAYMENTS— incukural Mortgage Corpo. 14 4pcDb.

Sirdar
DIVIDEND & INTEREST PAYMENTS—
Agricultural Mortgage Corpo. 14 LpcDb.
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Berry Pacific Fund 25 cents
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East Survey Pacific Fund 27 cents
East Pacific Fund 27 cents
Fund 27 cents
Double Fund 27 cents
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Do. 4.2pc (fmly. 5pc) Cons. Ord. 2.45pc
Do. 4.2pc (fmly. 5pc) Cons. Pri. 1.75pc
Do. 4.2pc (fmly. 5pc) Cons. Pri. 1.75pc
Do. 4.2pc (fmly. 5pc) Cons. Pri. 1.75pc
Do. 4.2pc (fmly. 5pc) Cons. Pri. 2.75pc
Do. 4.2pc (fmly. Alcan Alaminium, 10. St. James Square, E.C., 2.30
Associated Fisheries. The Savoy Hotel.
W.C., 12.00
Bedmont I Eroad St., E.C., 2.30
Gardinal Invest. Tst., 1.2. Laurance Pountney Hill, E.C., 11.30
Ciffton Investments. Winchester House, 100. Old Broad St., E.C., 17.00
Colne Valley Water, Blactwall House, Aldenham Rd., Watford, Hertfordshire, 12.30
Construction Holdings, 124, Chancery Coronet Industriel Sect., Birmingham Chamber of Industriel Sect., Birmingham, 12.00
Estbourne, W.C., 16.00
Laurance Chamber of Legislaston, Birmingham, 12.00
Legislaston Materworks, 14, Upperton Eastbourne, Waterworks, 14, Upperton of the Waterworks, 14. Upperton Eastbourne, 11.45 L. Common Rd., Stafford, 12.00 at Consolidated Investment Tst., 1. ters Green, Buckingham Gate, S.W.,

Brewers Green, Buckingham Gate, S.W. All 2.45 Imperial Group, Grossenor House Hotel, And Park Lane, W. 12.00 Norrington Olemry, 2. Marsh Barton Rd. Ass. Necessity 12.00 House House, London Wall, Ec. 12.00 Marsheld Nothinghamshire, 10.30 Cre Phoents Middle House, London Wall, Ec. 12.00 River Plate and General Investment Tet. 44. Bloomsbury Square, W.C., 12.30 River Plate and General Investment Tet. 44. Bloomsbury Square, W.C., 11.15 Gre Romney Trust, 21. Moorhelds, E.C. 2.45 Lon Walbrook, E.C., 3.30 Tribune Imper. Tst., 88. Leadenhall St. Pet. C. 2.30 West Coast and Texas Regional Investment Trust, 20, Birchin Lane, E.C., 12.30 Cripton MEETINGS. Associated Book Publishers

Associated Book Publishers
Bestobeil
British Mohair Spinners
Carpets international
Charterhouse Group
Coates Brothers
Friedland Doggart
Howden (Alexander)
Inch Kennoth Kalang Rubbor
Killinghall The (Malaysta)
Lane (Percy)
Leviand Palmt and Wallpaper
Manders
Miscopcrete

Garden, Cherry Garden Lane, Policestone, Kent, 12 00
GRA Property Trust, White City Stadium, Word Lane, W. 11,00
Haavitree Brewery, Counters Weir Hobel, 398 Topsham Rd Devin 11,30
Hirst and Mallisch, Queens Hutel, Leeds, 11,30
Howard Machinery, Sproughton, Josephin, 12,15
18 Capital Group, Royal Court Hatel, Signae Square, S.W., 11,30
Scyttish United Investors, 27 Renficial States Glasgow 11,00
Sutton District Water, 59 Gander Green, Cheam Surrey, 12,33
White Cheam Surrey, 12,33
Wh Pleate: Early (Charles) and Marriott (Witney) F.C. France rimin Home Countles Newspapers Horst (Charles) Ibstock Johnsen Matthews (Bernard) North British Canadian Inv nterims: -4kg and Elliot AcCallan-Glenliy McCallan-Glenivet
Scottish Metropolstan Property
DIVIDEND & INTEREST PAYMENTS—
Abercom 11 cents
Alten rw. and G. (Troton) 3.8p
Asifec Colloids 0.64:p
Anax Properties 0.7p
Argen and Conden Hotels 4.75p
Argen and Conden Hotels 4.75p
Associated British Foods Ln. 3. (Core.)
Associated British Foods Ln. 3. (Core.)
Gradinal Inv. Tst. Did. Ord. 2.35p
Crescent Japan Inv. Tst. 2.5p
Design 1.25p
Frankin No. 1.25p
Frankin No. 1.25p
Green J. Coren 12 tenns
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enthusiasm for this new British product is great-

the applications for GEMS, so a discussion

could well produce ideas new to us both. Our

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## Real pay in rich nations comparable

By Our Labour Staff STEELWORKERS in advanced industrialised countries have to work about the same number of hours to earn enough to buy roughly the same amount of food clothing and durable goods, according to new statistics produced by the Metalworkers' International Federation.

Using figures expressing the comparative purchasing power of net earnings in different countries, the federation says that metalworkers in the United States have earnings that provide most purchasing power, followed by those in Australia, Sweden and Den-

mark
The West German car-worker has to work three times as many hours to earn enough to huy the same amount of food as his American counterpart, according to the statistics. A Japanese car-worker has to

work six times as long. The statistics, however, do THE UNION now being formed associations are to meet out take into account such out of the three staff associations are to meet out of the three staff associations are to meet out of the three staff associations are to meet out of the three staff associations are to meet out of the three staff associations. housing conditions and other aspects which make up the

clearing banks should be formally set up by late summer, according to the timetable now The International Metal-workers Federation says the difference in purchasing power for workers in manufacturing is particularly marked between the West and the Far East. This, and Lloyds have, so far, given full support to the formation it says points to the level of exploitation in under-developed | Union. and developing countries.

# Clearer definition of immunity urged

BY NICK GARNETT, LABOUR STAFF

THE Engineering Employers or interference with a commer-Federation has asked the Gov- cial contract, to action taken by action at the first supplier or ernment for a more precise de employees of first suppliers or finition of when immunity from customers of the employer in civil proceedings will continue, dispute who were not themunder new legislation, for selves party to the dispute but secondary industrial action who regularly conduct a sub-involving first suppliers and stantial part of their business

The Government's proposals, which the federation says do not go far enough, are con-tained in a consultative document on secondary action. Interested parties had to submit their views on them by last week. The document and submissions will form the basis of a separate clause in the Employment Bill, now going through

The working paper proposes The working paper proposes scale during the course of the to extend immunity for breach latter's dispute."

laid down by the staff bodies.

Barclays, National Westminster

of the proposed Clearing Bank

Executives of the three staff

BY NICK GARNETT, LABOUR STAFF

The management committees the end of May with the result of staff associations at known by early June.

with that party.

The federation says this proposal would breed considerable uncertainty. It proposes that immunity for breach of commercial contract should only be available in two instances.

These are:

"Where the first supplier customer was actually continuing to supply goods to, or take goods from, the employer subject to the primary dispute on a substantial

Summer target for bank union

that the proposal to form a new

union should be put to ballot.

If that is accepted the ballot

would have to go ahead before

Providing the staff associa-

tions' membership accepted the instruments of amalgamation,

the new union would then be

technically in existence within

customer was taken with the objective of directly affecting the continued operation of the employer subject to the primary achieving this effect"

The Federation says this wording would mean that the industrial action would be immune only where the continuing supply of goods from or to the first supplier or customer is clearly a significant factor in enabling the primary employer to withstand the industrial action.

It would also mean that secondary action would not be immune if the primary indus-trial action had been effective in shutting down the primary employer. In this case, secon-

Discussions are still in pro-

gress with the Certification

Officer and staff association

officials are awaiting the first

draft of the instruments of

• The staff associations and

meetings with the Federation

following the banks' refusal

last week to improve their 17

amalgamation.

per cent pay offer.

• "Where the secondary dary action by employees of the first supplier or customer would be unnecessary and gratuitous and would not be immune.

> The federation submits that within the scope and timetable of the debate on the proposals, making all secondary action unlawful is not warranted.

> It says however that the Government's proposed Green Paper on trade union immunities should aim to encourage debate "on the question of whether in a modern industrial society it is reasonable that there should be legal immunity for any secondary industrial action, and shall expressly examine what would be the result of withdrawing that immunity and how it might best be achieved."

## Railwaymen halt tube services

UNDERGROUND TRAIN services in London came to an early stop at some stations at the weekend after railwaymen walked out in protest at attacks on staff.

There were no trains on the Metropolitan, Circle and Jubilee finance union have separate lines. Trains on the Bakerloo lines were restricted during of Bank Employers this week the action after 10 pm on Friday and Saturday nights.

London Transport said it sympathised with the men.

## 'Wreckers' threaten the NHS

The National Health Service was under threat from the dogmatic wreckers" in Government, Mr. Norman Willis, TUC deputy general secretary told a union conference on the health service at the week-

He told delegates from the Association of Scientific, Technical and Managerial Staffs that measures so far introduced " have the singular characteristic of attacking the real progress achieved in our society since the war."

Cuts in public expenditure were reducing living stan-dards and the tax changes being made did not benefit the lowly-paid and the majority of workers.

"It is a sobering thought," said Mr. Willis, "that, at the same time as the Govern-ment is obliging health authorities nationwide to chop £125m off the present inade-quate level of provision for the NHS, it is handing company directors on £50,000 a year a nice 50 per cent overnight pay rise."

Opposing cutbacks in the health service or fighting to protect child benefits or retirement pension was not being "wet," Mr. Willis said. He called for a reversal of planned Government cuts. want national strike

BY OUR LABOUR STAFF

Liverpool dockers

called for yesterday by a mass meeting of dockers at the port of Liverpool, which has been

Dockers' shop stewards from Hull and Southampton were at the meeting, and a mass meeting of dock workers at Southampton is expected to be called today to discuss the strike call. Mr. Jimmy Symes, docks

district secretary of the Trans-port and General Workers Union, is now attempting to arrange a meeting of the national docks delegates conference, with a further mass meeting at Liverpool scheduled for Wednesday.

Representatives of the Liverpool dockers are also expected to see officials of the TGWU in London today, over the union's policy towards blacking all steel novements in and out of the

More than 5,000 dockers and 2,000 ancillary workers at Liverpool went on strike on Friday over the suspension from work of 100 dock workers who refused to complete loading steel onto a

pay, in accordance with a warn-ing this year that any refusal to could only make them look handle materials in support of twice at using Liverpool.

A NATIONAL dock strike was an outside dispute would be at the dockers' own expense. Yesterday's mass meeting, which involved a majority of the

brought to a standstill by a dockers together with represtrike over the handling of sentatives from the port's ancillary workers, did not vote on the strike.

The Liverpool Port Employers Association said the outcome of the meeting was very disappoint-

Mr. James Fitzpatrick, managing director and chief executive of the Mersey Docks and Harbour Company, warned yesterday of possible international repercussions of the dispute, after flying back to Britain on Thursday from a trade-seeking mission to China and India.

He said the Chinese relied heavily on Britain for steel and had come to regard Liverpool as one of the UK's two most important ports. Cargoes between Liverpool and the People's Republic had doubled in the past 12 months.

Mr. Fitzpatrick added: "The Chinese will be watching this situation very carefully. It will help neither Britain's export trade nor the Port of Liverpool, and shipowners serving the sub-The dockers had been continent of India are conscious suspended on Thursday without of the need for reliability from

## INSURANCE

## Why satellite cover is still worthwhile

BY OUR INSURANCE CORRESPONDENT

THERE ARE fools, damned fools, and underwriters" was the comment I heard this week, provoked by the news that the world aviation insurance market is likely to have to pay out \$77m for RCA's Satcom 3 satellite. which went missing in December only a short time

after its launch. Even to the well-informed or worldly-wise layman it must seen astonishing that the market is ready to insure a piece of hardware designed to be fired into space without pos-

sibility of return. Being on a hiding to nothing" is a phrase that might seem most apt even to brokers and underwriters not involved in aviation business, but in fact in recent years aviation underwriters have made a fair-sized book of satellite insurance.

commercial purposes.
The essential point is that a satellite, though irretrievable, is put up in space to do a specific job or jobs for a pre-determined period. If it fails in part, or absolutely, and the project is to be continued, a replacement must be built and

Viewed from this angle a satellite is no different from any other piece of purpose-built machinery. The fact that it machinery. The fact that it cannot be brought back to earth for repair does not affect its operational value while it works satisfactorily, but increases the risk of a total loss before the predetermined date when its

There is no argument that while it is on the ground in the construction, pre-launch stage, a satellite is as insurable as any earthbound piece of equipment: and this is the starting point for much of the cover that has been written. Cover is all risks subject to specified exclusions, at the in-transit in-store, and preignition pre-launch stages.

When pre-ignition cover ends launch-failure insurance begins continues until

satellite is "on station." This insurance pays for the cost of a replacement launch, usually by totalling the replacement costs of the launch and the satellite.

Provided the satellite is properly set into orbit the "life insurance" cover comes into operation. The insurance can be related to replacement costs on the same lines as the launch-failure cover, or it can be based on likely loss of revenue. This life cover is usually written for a three-year neriod, but since many satellites are designed to work for longer periods extensions of

cover may be needed. Information is that RCA's laim is roughly two-thirds for 50 launched for non-military, launch failure and loss of the satellite and a third for loss of revenue. The loss of Satcom 3 seems unlikely to deter the market from providing cover on established lines for future satellites, but must affect insurers views of the premium required.

Aviation insurers are already thinking about the next space development, the space shuttle designed to return regularly to ground once its particular space mission is complete.

short but informative article on non-insurance aspects of the space shuttle by James Rogers appears in this month's Across the Board, a magazine published by The Conference Board of New York.

An 11-page chapter on satellite insurance is included in a Butterworth publication, Avia tion Insurance, by R. D. Margo. My guess is that by the time a second edition is published these 11 pages will necessarily have been considerably expan-

## Public Works Loan Board rates Effective from March 22

•	Quota	loans	repare	Man - Anna		at
Years	by EIPt	Aŧ	at maturity§	by EIPt	A‡	maturitys
Up to 5	154	15+	151	16¦	167	16
Over 5, up to 10	131	152	151	157	157	15 <b> </b>
Over 10, up to 15	15±	15 ł	15	152	15 <b>{</b>	151
Over 15, up to 25	15	147	141	15}	137	15 <u>†</u>
Over 25	147	147	14]	15}	15	15]
Non-quota loans B quota loans A. + Eq half-yearly annuity principal and interest	រួមនៅ ខែស្ន	ımeo	ts of prin	kripai. + r v pavmen	ts to	include



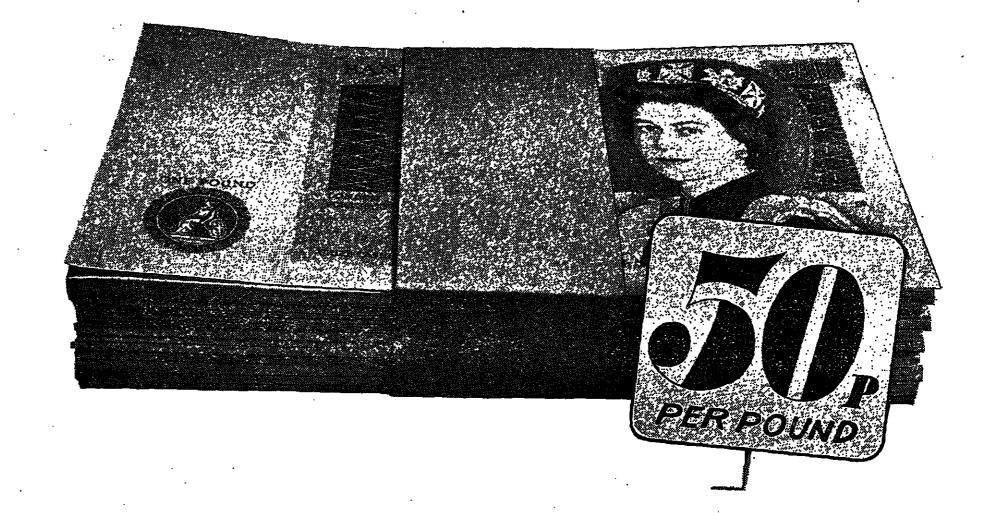
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Or telephone 01-828 3400.



# Audio-visual post at Thorn EMI

Mr. John Sibley, THORN EMI director of administration and company secretary, has been appointed to co-ordinate the development of the company's as an executive director. He audio-visual interests. He takes over direct management responsible for the furniture group.

The management responsible for the furniture group is the furniture group in the furniture group in the furniture group is the furniture group in over direct management responsibility for the existing audio-visual operation. Mr. Sibley joined Thorn Electrical Indus-tries in 1952. He became com-Executive Board in 1973 and director. appointed to the Board of direc-

Mr. Michael Checkland, the BBC's controller of planning and resources, has been appointed a director of VISNEWS from April 1. He replaces Mr. Alasdair Milne as one of the the company's Board. Mr.
Milne, who is managing director,
Television, BBC, has been a director of Visuews since July, 1973.

Indicat, wr. Icachina. 2004.

Mr. Mark H. Dixon and Mr.
Jonathan Sparke have been appointed to the Board of CORAL INDEX, a division of the

Mr. Ernest Smith has been elected president of the BUILDERS BENEVOLENT IN-

The Secretary for Employment

In Tokyo...

Mr. R. C. Smith has been appointed deputy chairman of the STANDARD LIFE ASSURANCE COMPANY following the resignation of Mr. B. D. Misselpany secretary in 1972, was resignation of Mr. B. D. Misselmade a member of the Thorn brook, who continues as a

The FIRST UNION NATIONAL BANK OF NORTH CAROLINA has appointed Mr. John S. K. Oram as its UK repreresources, has been appointed a sentative in succession to Mr. director of VISNEWS from Kenneth A. Wagg who is retir-April 1. He replaces Mr. ing. The representative office is Alasdair Milne as one of the now at 22, South Audley Street, BBC's three representatives on London, W1. Telephone: 493 5222.

Coral Leisure Group.

Mr. M. Tebbatt, company
secretary of GEORGE OLIVER
(FOOTWEAR), has been the London office of RUSSELL appointed a director. Mr. D. J. REYNOLDS ASSOCIATES as an Austry has resigned from the

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expressions of things Japanese

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INTERNATIONAL S.A.

HYPOBANK INTERNATIONAL S.A. has

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the Bank continued its favorable

1972. In 1979, its eighth year of activity,

development, increasing the Balance Sheet total by 28 % to Lfrs.715 billion (US \$ 2.464 billion).

Our position in the Eurocurrency market was further strengthened. The

internationally diversified loan portfolio

also grew, and continues to comprise

service facilities were further expanded. Following excellent results in previous

1979 kept pace with increased business

more than half of our balance sheet. Our activity in securities and our client

years, net profit from operations in

volume, while total net profit, which included substantial extraordinary income, increased by 41 % to Lfrs. 283

To maintain an adequate relation to

increased in 1979 by Lfrs. 125 million

to Lfrs. 1.215 billion. Shareholder's Equity, Including provisions, amounted

to Lfrs. 1866 billion (US \$ 64 million) at

Annual General Meeting to distribute

the profit of Lfrs. 283 million (US\$9.8

million) by paying a dividend of 12 %

and allocating Lfrs. 152.5 million (US\$

5.26 million) to the free reserves.

The shares are held by BAYERISCHE HYPOTHEKEN-UND WECHSEL-BANK AG.,

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37, boulevard du Prince Henri,

year's end. It was proposed at the

the growth of the Bank, our capital was

million (US \$ 9.8 million).

... continued success in 1979

**Assets** 

Balances with banks

Advances and Loans

Fixed assets and others

Capital & Reserves

Net profit

Deposits & Current accounts 67,382 Others 1,932

LUXEMBOURG

3,204

1,469

Balance Sheet total

(Lfrs. billion)

Hotel

elected president of the appointed managing director of NATIONAL ASSOCIATION OF UPJOHN LIMITED. UK, sucscitized when the continues as chairman. Mr. Continues as chairman. Mr. Continues as chairman. Martin Luce.

Mr. M. A. Clark is to become managing director of R. C. WALMSLEY on April 1. He will icceed Mr. Reg Walmsley who retires from that position but will continue as a director and will work in a part-time advisory capacity. The parent concern is Associated British Foods.

Mr. Roger Beard has been appointed sales director of FIELDING AND PLATT, a member of the Redman Heenan International group.

Mr. T. D. B. Harirson has been appointed sales director of FORMWOOD, a member of the Mallinson-Denny Group.

manufacturing

Mr. Geoff Rodgers has been Smith has become general manager, business development-Europe, for the international division

Mr. John Clements has become managing director of NATIONAL ADVANCED SYSTEMS (UK).

The Secretary for Energy has re-appointed Mr. Charles Lovel! as a part-time member of the SOUTH EASTERN ELECTRI-CITY BOARD for three years.

Mr. R. B. Pangbourne has been appointed joint managing director of CORNELL DRESSES.

The contract to build and instal what is claimed to be the fastest milk bottling plant in the UK has been awarded to TECHNO PACK ENGINEERING, Walsall. Worth almost £1m, the customer is Unigate Dairies and the 1,000 bottles/minute line will be installed at Liverpool. Installation will begin in November and the plant will be operational early in 1981.

Home and export orders for electronic communications equip-ment worth £750,000 bave been WOD DY STANDARD TELE-PHONES AND CABLES' elec-PHONES AND CABLES' electronics division, Newport, Gwent.
The Post Office has ordered audio circuit network amplifiers, signalling unit racks and test equipment for more than £500,000. STC will also make data modems for an associated company, Standard Radio and Telfon of Stockholm. The order is worth £250,000 and is for equipment to connect low-speed data devices—such as teletype-writers—to computer systems over the telephone network.

A £120,000 contract has been won by ALTON ENGINEERING, Ripon, for the refurbishment of two pre-driers which are used for the drying of quarry limestone between crushing and screening.

BICC VANTRUNK has an order worth over £100,000 placed by Brown and Root Wimpey/ Highland Fabricators on behalf of BNOC Developments for the

Securicor has placed an order



Mr. John Sibley

ICL 7500 series terminal pro-Current Mar. 27-Mar. 31 Mar. 27-Apr. 5... cessors with remote printers and 37 associated visual display units. Apr. 27—Apr. 5... Apr. 7—10 .... Apr. 13—15 .... Apr. 15—19 .... Apr. 16—24 .... Apr. 21—25 ....

GRIEVESON, GRANT AND CO., stockbrokers, states that Mr. F. R. H. Spencer will be retiring from the partnership today, Mr. O. P. Dawnay and Mr. A. A. Robertson will be retiring on April 11 and will remain associated with the firm as consult

Apr. 21-26

Apr. 24-28

Apr. 29-May 2...

May 7—11 ...... May 10—13 .....

Mr. Clayton A. Sweeney has been appointed a director of WILKINSON MATCH. He has been Mr. R. J. Buckley's alternate director on the Board of Wilkinson Match during the past year and is also a director and a senior vice-president of Allegheny Ludlum Industries

Mr. Tony Holliday (Tootal Menswear) has been elected chairman of the SHIRT MANU-FACTURERS' FEDERATION, with Mr. Peter Barden (Tern-Consulate) as senior vice-chairman and Mr. David Buck (Edward R. Buck and Sons) as honorary treasurer.

Mr. Edmund R. Raczkowski has been appointed managing director of GSPK (SALES), Knaresborough, (member of the GSPK Group), marketing decorative scented oil lamps and a range of oils and accessories.

Mr. David G. Thomas has become a director of JOHN WILLIAMS STEEL SERVICE, Cardiff, with overall responsi-bility for sales.

of BNOC Developments for the supply of cable support equipment to be installed in the Nigg will be leaving the partnership of HENDERSON CROSTHof HENDERSON CRUSTING WAITE, stockbrokers, on April 25 to join DALGETY. Mr. David P. worth £300,000 with INTER- Lang will be joining the partner-NATIONAL COMPUTERS for 23 ship on April 28.

## BUSINESSMAN'S DIARY

## UK TRADE FAIRS AND EXHIBITIONS

Mar. 25—28 ..... Mar. 26—28 ..... Mar. 29—Apr. 8... London Fashion Exhibition (01-385 1200) Viewdata '80 Exhibition (0885 39262) Birmingham Motor Show (0602 51202) Birmingham Motor Show (0602 51202)
British International Footwear Fair (01-437 6734)
GLASSEX '80 Glass and Technology Exhibition
(01-353 4885)
National Boys and Girls Exhibition (0532 620361)
Educational Equipment Exhibition (01-247 9826)
Ideal Home Exhibition (0727 312850)
Tipping (publish) Convention and Exhibition Mar. 30—Apr. 1... Mar. 30—Apr. 2... Apr. 3—9 ....... Apr. 9—10 ..... Apr. 15—19 ..... Apr. 17-20 ..... Tipping (vehicles) Convention and Exhibition (01-387 9711) Optrafair '80 (01-405 8101) Apr. 21—25 ..... International Fire, Security and Safety Exhibition—IFSSEC (01-388 7661)

Apr. 22—May 2... International Machine Tool Exhibition—MACH 80 (01-402 6671) International Food and Wine Exhibition (06284) Apr. 28-May 1... Audio Visual Exhibition (01-688 7788) Spring Motor Cycle Show (04866 74987) Boat Show (0272 657783)

National Collectors Exhibition (01-629 4917)

..... FT Conference: Business Premises and Profit-

## Kensington Town Hall **EXHIBITIONS** OVERSEAS TRADE FAIRS AND

Exhibition Centre, Lecus

Wembley Conference Centre

Bingley Halls, Birmingham Exhibition Centre, Briston

Spring Fair (01-935 8200) (until March 31)
Machine Tool Exhibition—METAV (01-409 0956)
British Aviation Equipment Exhbn. (01-215 7877)
World Fabric Fair (0532 469611) Dubai Dusseldori Shanghai World Fabric Fair (0532 469611)
MODEXPO '80: International Ladies Fashion Fair
Transport—Expo '80 (01-486 1951)
Hanover Fair (01-651 2191)
World Tobacco Exhibition (0737 68611)
Scientific and Measurement Apparatus Exhibition
(INSTRUAMA) (01-235 5422)
Perfumery and Cosmetics Exhibition
COSMOPROF
Biochemical and Instrumental Application Paris Hanover Brussels Bologna Munich Brüssels

Olympia

Wembley Conference Centre Bingley Hall, Birmingham

NEC, Birmingham

NEC, Birmingham Alexandra Palace

NEC, Birmingham

Harrogate City Hall, Hull

Harrogate Earls Court

Olympia

## COSMOPROF Biochemical and Instrumental Analysis Exhibition (ANALYTICA) (01-486 1951) Compec Europe Exhibition (01-261 8000) Scandinavian Furniture Show (01-540 1101) International Trade Fair for Optometry—OPTICA (01-409 0956) CONFERENCES BUSINESS AND MANAGEMENT

ł		ability (01-236 4382)
	Mar. 24—25	Law and Business Inc: New Techniques in
		Acquisitions of U.S. Companies (01-267 4466)
1	Mar. 24-28	Kapner-Tregoe: Decision Making for Senior
i		Management (0628 38083)
ì	Mar. 25	Institute of Directors annual convention: Prosperity
ļ		or Poverty?—the last chance for choice (01-839 1233)
Į	Mar. 26	Henley School for Forecasting: Costs and Price
ı	_	Forecasts to 1985 (01-353 9961)
Į	Mar. 26—27	Sally Templar-Charles Simeon: Control of Toxic
ł	· ·	Substances (01-995 1791)
١	Mar. 26—28	Frank Jefkins School of Public Relations: Planned
ı	35 00	Press Relations (01-567 2911)
Į	Mar. 28	Oyez-IBC: Electrostatic Hazards in the Storage
J		and Handling of Powders and Liquids — A
ľ	A 1 9	Review (01-242 2481)
Į	Apr. 1—3	FT Conference: The Future of Sugar (01-236 4382)
I	Арт. 1	ESC: Advances in Microprocessor Applications for Food Manufacturing (057-282 2711)
ı	Apr. 1—2	Flight International: Fuel Economy in the Airlines
l		(01-643 8040)
ı	Apr. 10-11	Brunel University: Coping with Conflict and Management Change (0895 56461)
ı	Apr. 11	Oyez-IBC: Media Research and the Advertiser-
ı	_	The Unexploited Factor (01-242 2481)
i	Apr. 14	Oyez - IBC: Consumer Credit Act 1974: New
ı		Orders and Regulations (01-242 2481)
ı	Apr. 15	IPS: Controlling Purchasing Costs in an Infla-
ı		tionary Climate (0990 23711)
ı	Apr. 16	CCC: Letting Residential Property for Profit
ı	A 101F	(01-222 6362)
ı	Apr. 16-17	Food Manufacturers' Federation 8th Annual
	-	Conference: Food for Growth (01-836 2460)

Portman Hotel, W1 Whately Hall Hotel, Banbury

London Press Centre Piccadilly Hotel, W1

Royal Albert Hall

Connaught Rooms, WC2 Hilton Hotel, W1 Grosvenor House, W1

Cavendish Conference Centre, W1 Royal Aeronautical Society, W1 Uxbridge Hilton Hotel, W1

Hilton Hotel, WI London Press Centre Hilton Hotel, W1 Grosvenor House, W1

## CHUJITSUYA CO., LTD. TOKYO, JAPAN

5% DM Convertible Bearer Bonds of 1979/1987 Security Index Number 464 564 Adjustment of Conversion Price

The Board of Directors adopted the following resolution on October 1, 1979:

Free share distribution at a ratio of 10:1 to shareholders registered on February 29, 1980 (record date).

As a result of this capital increase the previous conversion price of Yen 1.301.30 for the convertible bonds was adjusted in accordance with the Terms of Issue. The conversion price effective from March 1, 1980, will be Yen 1,183 .- per share of Common Stock with a par value of Yen 50.—.

Forced Auction No. 3

DLB "Sea-Troll"

Self propelled derrick Lay Barge "Sea-Troll,"

built 1976 Blohm and Voss, Hamburg, will be

sold on compulsory auction in the Council

House of Lyngdal, Norway, on April 28th,

1980 at 12 noon. 1800/1400 tons heavylift

"Clyde" rotating crane and pipe laying

system for handling 60 ft. pipe lengths of

diameter 8 to 60 inches. 5 16 cyls Pielstick,

b. 1976 each driving 4200 kw. generator.

Double shaft, variable pitch propellors - 8

knots transit speed. May be seen in Rossfjord,

Mr. Floettum. Tel: (045) 41888, Stavanger

Telex: 33316

Lyngdal District Court, Farsund, Norway

Lyngdal, Norway. Further information:

On behalf of Chujitsuya Co., Ltd.

Munich, March 1980 BAYERISCHE VEREINSBANK

## LOCAL AUTHORITY RONDS

Every Saturday the Financial Times publishes a table giving details of

# LOCAL AUTHORITY

For advertisement details please ring

B. Kelaart 01-248 8000

Extn. 266

## BONDS on offer to the public

## **Financial Times Conferences**

World Pulp and Paper Conference Helsinki — April 28 and 29, 1980

At this fourth Pulp and Paper conference being arranged in co-operation with Helsingin Sanomat, a distinguished panel of speakers from the USA, Canada, Brazil, Europe and Nordic countries will examine the problems facing the industry in the 1980s and assess the outlook for the future.

World Electronics — Strategies for Success

by Dr. Friedrich Bauer, Executive Vice-President, Siemens AG, Mrs. M. Cantoni Bellisario, President, Olivetti Corporation and Dr. Robert Heikes, Vice-President International, National Semiconductor GmbH.

Financial Times conferences to be arranged in June will include the annual World Banking Conference to be held in Singapore on June 2 and 3, 1980 and a European Offshore Conference to be arranged in London on June 18 and 19, 1980.

Financial Times Limited Conference Organisation Minster House, Arthur Street London EC4R 9AX

Tel: 01-621 1355 Telex: 27347 FTCONF G

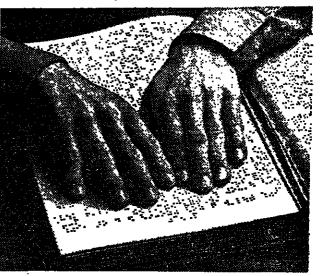
Monte Carlo — May 5-7, 1980

The opening session will be devoted to the European electronics industry with papers

All enquiries should be addressed to:

Cables: FINCONF LONDON

# Braille. It's tomorrow's world for the blind.



When you're blind, having braille to read means that the world of print is open to you... and that you can cope with it independently.

As Britain's main braille publisher and producer, the RNIB pours out the reading matter without which the life of the blind would be so much darker

A novel for pleasure. A knitting pattern. This week's Radio Times. A monthly magazine about your hobby.
Above all, braille keeps men and women in

touch with the pace of change in day-to-day life, enables them to master the ever-increasing complexities of any subject that affects them.

The needs are greater every year, so you can see why we ask for your donation (direct or by covenant) and for a thought in your will.



## **GESTETNER HOLDINGS** LIMITED

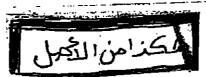
Bearer shareholders should lodge Ccupon 109 with Barciays Bank Limited (Securities Services Department), 54 Lombard Street, London ECAP 3AH, in respect of the final dividend declared on 17th January, 1980. Bearer dividend shareholders should lodge three clear days before 4th April for 11% dividend Bearer capital shareholders should lodge (with aliotment instructions) on or after 8th April for 0.28% dividend and new capital shares as follows:-

Based on the average price of ..... For each share held holders will

74.323p

ord. csp. 74.323p 0.051513 0.051513

of a share of a share Fractions of new shares will be sold for the benefit of





 $\mu_{\mathcal{M}}$ 

## Picture the scene:

On the one hand, a man born, bred and hardened in the West Riding, running his own small chemical company.

On the other, a man born, bred and hardened in West Byfleet, running a large investment company somewhere in the City.

money.

from the City for the day to see if he can help.

But it's going to take more than the knowledge of the finer points of finance.

Because, financing and also helping smaller businesses is a highly specialised and local affair.

And frankly, no one can help you better

You'll see what we mean if you contact one of our offices dotted around the country.

Each one is run by a man who knows the area and the people like the back of his hand.

He will understand you and your problems so his advice will always be worth

More importantly, he may well be able to help you with long-term capital, anything

than ICFC. listening to. That's because over the vears we've dealt exclusively The only thing they have in common is with small businessmen, so we from £5,000 to £2 million or more. reckon to understand them One needs it. The other has popped up Not bad for a local lad. ICFC pretty well. "Hello Mr Chalk,"
I'm Cheese"





# Technical News Fitting out manual

## CONSTRUCTION

# Stops the man with the drill

PLYAGE IS a tough plastic warning of the existence of pipe mesh to be laid above buried gas, power, telecommunications and water services - in the highways or on residential/ industrial estates - to protect printing which disappears in them against future excavation

Marketed by Electrolocation vice below. It is tough and of Bristol and available in four will provide effective protection green or blue-it will instantly identify the buried plant one or two tough polypropylene beneath it. The new protective reinforcing hands woven longimesh is claimed to be more effective and easier to lay than tapes. Versions incorporating bucket of a digger cuts the a tracer wire also allow accumesh, these bands are not rate location of plastics pipes from the surface before digging, trench and, on breaking, fray using a standard pipe locator. It will save contractors and local authorities many thou- driver. sands of pounds a year as

runs beneath it. It would be laid 30 cms or 40 cms above a service when it is installed. Unlike tapes, Plyage is colourcoded - a better method than

some soils — to allow quick identification of the type of serbright colours - red, yellow, against mechanical excavation. Plyage incorporates either tudinally through the mesh but not secured to it. As the sheared but pulled out into the

Electrolocation, 129, South Plyage protects against manual Liberty Lane, Bristol BS3 2SZ, excavation damage by ample Telephone: 0272 634383

at the ends to provide a brightly

coloured warning to the digger

## Hydrostatic rollers

CONTRACTORS Plant Division engine and the clean layout of Stothert and Pitt has added gives all-round accessibility.
two more models to the Vibroll Stothert and Pitt, PO Box range of vibrating rollers, both incorporating hydrostatic trans- 3DJ. 0225 314400.

tional weight of 655 kg. Its single control combines forward reverse motions with positive neutral, and also gives infinitely variable speed control. In addition a deadman's handle is fitted and its release automatically applies a spring-loaded mechanical parking brake.

In the second model, the W71 single roll pedestrian machine. a different hydrostatic system is employed. The unique transmission unit combines pump. motor, control valves and oil reservoir in a single housing, eliminating any hydraulic hoses.

A single lever controls forward and reverse movements and gives infinitely variable travel speeds. When the lever is released the machine is automatically stopped by the braking action of the hydraulic circuit, giving a deadman's handle requires maintenance is the completed in 1981.

Stothert and Pitt, PO Box 25, Lower Bristol Road, Bath BA2

# Yugoslavia

CRYOPLANTS of London (BOC Group) has received a \$12m contract from Davy-Loewy. Sheffield for the supply of cryogenic plant and equipment Smederevo, Yugoslavia. The order, won against keen international competition, is for an 850 tons per day oxygen plant, a 70 tons per day liquefier, vessels and road tankers.

The plant and equipment will be operated by Tehnogas, the main Yugoslavian industrial gas organisation. It will be located at the Smederevo Steelworks near Belgrade, where a major

# released

FIRST EDITION of Shopfitting Specification (SHOPSPEC 80). a new reference annual for architects, designers and shopfitters, has been published. Prepared in collaboration with the National Association of Shopfitters, it provides the pollution levels. specifier with an extended work of reference for this highly specialised section of the building industry.

It contains 352 pages A4 size, with numerous photographs and diagrams, and 86 full colour plates. The publication is pre-sented in two main sections. The first contains articles on subjects from leading architects and consultants including, "The Future of Shopping Centres"; "Design for Leisure," "The Design of Retail Outlets"; "Interior Design Applications"; 'Aspects of Insurance." etc. In addition, there are articles in the form of case studies on the building and refurbishing of 12

major installations. The second half contains 22 product sections covering all the major material and component groups. Each has an introductory article covering trends and developments, with general guidance notes of specific importance to assist the architect and designer at specification stage.

A breakdown of all manufacturers and suppliers with addresses, telephone numbers, names of contacts and, in many cases, a summary of the range of products and services offered. completes each section — detailed information on over 2,000 companies is included.

SHOPSPEC 80 costs £15 and noise conscious areas. is available from the publishers, Pennington Press, 78, Pennington Road, Tunbridge Wells. Kent TN4 0AF (telephone: 0892

## Retaining process heat

USE OF Baxenden sprayed urethane insulation on six hot oil storage tanks has resulted in substantial savings in capital expenditure and a reduction in the energy required to maintain the temperature of the oil.

Making up the biggest one-off spray contract job carried out in Britain, the tanks are at the Gulf Oil Refinery, Milford Haven, Pembroke. The largest, a floating roof tank, is 80 metres f the hydraulic circuit, development programme is in diameter and nearly 20 a deadman's handle going ahead. Delivery will take metres high. Insulation was The only unit that place in stages and will be undertaken by Gulf Insulation Service on behalf of the main

Great contractor, Bechtel Britain.

The tanks were shot-blasted then primed before spraying. A 38 mm thick coating of Baxen-den's Isofoam SS212—sufficient to maintain the tank contents at a temperature of 60 degrees C -was then applied. The surface was finally overcoated with two coats of a weatherproof mastic, Coolag under licence from the Childers Corporation

Baxenden, Paragon Works, Baxenden, Accrington, Lancs Harrow Road, Wembley, BB5 2SL. Accrington 381631. HA9 6ER (01-903 6261).

**POLLUTION** 

# Accurate analyses made fast

monitor which will detect to low levels - in favourable measure and identify oir or cases to lower than 1 part per breath-borne pollutants down to billion and in general 10 parts full microprocessor control. The less than one part per thousand per billion. million in typically one second.

Applications include factory atmosphere monitoring, chemical leak detection, and non-invasive screening of process workers for critical body

It is a mobile compact mass sample from atmospheric pressure without the requirement for a by-pass pump, and lists the major pe will detect and identify organic with each species

service to help manufacturing

customers who instal the group's

diesel engines cut down on the

overall noise generated by their finished products— whether they be vehicles fork lift trucks, tractors, diggers,

The engine itself is seldom

responsible for more than half the noise created by a piece of

powered equipment and sometimes for as little as a fifth.

Attention to other known noise

sources in a product, particu-

larly at the design and develop-

substantial improvements in

given to a manufacturer who

wants to reduce the noise of an

existing product so he can sell

it into one of the world's more

vary considerably but in general are because

creasingly stringent. Trends are

-continuously

The service is at its most effective when giving assistance at the initial stages of a product, but advice can also be

eventual noise levels.

stage, can bring

generator sets or boats.

Cuts diesel decibels

PETRA is a mobile pollution pollutants at the sampling point

the response time to 95 per cent above apply for MPM. to a step change from pure air (Nitrogen) to a prepared sample, is typically 2 seconds. That is much faster than currently available techniques, for example, gas chromatography.

The specific pollutant may be spectrometer system which will identified by means of a characteristic mass table provided with the instrument which lists the major peaks associated

future requirements.

Perkins on Peterborough 0733

• PERIPHERALS

municate either directly through the phone network with

Armed with an on-board

microcomputer the unit can be

programmed to meet the user's

specific needs and the batteries

provide 10 hours use before re-

charging. It will be of value to

anyone who needs to record,

process and report on informa-tion from many different loca-

tions in the course of his work.

Applications will include shelf

stock recording, order taking in sales and distribution organisa-tions, shop floor data collection

and, suggests Ventek, for source

to communicate with the main-frame automatically.

Ventek is at Station House

bу

computer

a computer.

data entry

bureaux.

Versatile

data unit

Multiple pollutant monitoring (MPM) is available using multiple ion detection under detection limits and response The sampling time, defined as and sampling times quoted

The sensitivity to a particular using a selected membrane and single ion monitoring, has been demonstrated as 0.5 parts per billion for cyclohexane.

VG Gas Analysis, Nat Lane, Winsford, Cheshire, CW7 3QH. 06065 52021.

## • IN THE OFFICE Plotting at PERKINS HAS set up a new Perkins legislation specialists to applications noise advisory ensure that noise targets are high speed appropriate to both current and

LATEST electrostatic printer plotter from Versatec (a Xerox company) is the V-80, able to print 1,000 lines of 132 characters every minute—claimed to be three times faster than a comparably priced impact printer.

Nothing moves in the printing head. The paper is moved past a paper-width line of densely AS MORE and more data prospaced electrostatic writing "nibs" each of which can be digitally commanded to charge cessing ability is crammed on to the modern integrated circuit, the abilities of the handthe tiny area underneath it as the paper passes. In this way either alphanumeric characters held data capture device become correspondingly more versatile. or graphics can be impressed on The latest unit from Ventek the paper as a charged pattern.
The paper is then exposed to
a liquid toner making the latent
images visible and permanent. Computers, Dataport 5, can record words and numbers, process and aggregate the information fed into it and com-

In its plotter mode the V-80 can produce an 11 x 81 inch area of graphics with a 200 dots/inch resolution in about seven seconds. It can also produce hard copy from a video/CRT signal source in under 20 seconds using a suitable controller.

The advantages of this kind of machine will readily be seen by those integrating printers into OEM, computer, office equipment and into word rocessors Versatec claims that this is

the first time that a true 1,000 line per minute with full plotting ability can be bought for less than the cost of a low-speed impact printer.
In addition, at £4,750 the V-80

With an associated acoustic coupler Dataport 5 can be used is about 35 per cent cheaper to send or receive from a comthan the company's previous model 1200A, which it replaces. puter over a communications network. It even has an auto-But it is half the size and answer facility which allows it weight, is easier to load, is quieter, and needs no calibration or adjustment.

Versatec Electronics is at 27 London Road, Newbury, Berks. Harrow Road, Wembley, Middx. (0635 42421.)

IN THE MIDDLE EAST

## • ELECTRONICS Rescue for defective boards

WITH MODERN multi-layer printed circuit boards worth up to £100 each, mistakes at the compound may be enhanced by final stage can be very costly selection of a specific separation indeed. At best, boards may material. The detection limit, need desoldering and reprocessing-involving additional difficult work, and interfering with normal production planning. At worst, the boards may have to be scrapped, involving consider-

able financial loss.
One of the most common faults is overplating, where excess tin-lead solder in platedthrough holes means that components cannot be inserted. Now, a UK company has started a service that can rectify most over-plated tin lead printed circuit boards in a single, automated process. Using a Gyrex hot air solder levelling unit, Newbury-based

Circuit Techniques (a sister company of Circuit Plating Equipment) can process epoxy glass or polyamide PCBs at speeds of up to 120 an hour. As well as treating and rectifying faultily plated tin lead boards, the new service is aimed at PCB manufacturers with a specific need for hot-air solder levelling to meet parti-cular equipment applications. Circuit Techniques, Unit 3, London Road Industrial Estate, Fleming Road, Newbury, Berks. Newbury 31666.

## Insulation testing method

MOST OF the requirements for insulation testing up to 1,000 volts can be met by the BM10 just announced by Evershed and Vignoles.

Insulation resistance can be measured at five voltages between 50 and 1,000 volts, the lower values enabling tests to be made without endangering components. The integrity of earth conductors, or ring main continuity can be checked using the appropriate setting, and it is also possible to measure voltages up to 500 V, AC or DC. An interesting safety feature is that the instrument acts as AC/DC voltmeter on any switch position before the test button is pressed. The meter will then immediately indicate to the operator if the circuit is not isolated when the test leads are connected.

## thuriey 🔅 DIRECT GAS-FIRED SPACE HEATING AND PROCESS HEATING

## • PRINTING **Typesetter** link unit

AN ELECTRONIC interface that allows virtually any computer to be connected to any photorypesetting system has been introduced into the UK by Alphatronic Systems, P.O. Box 27, Stanmore, Middlesex HA7 1DS (91-204 1144).

Made in France by SEAT of Paris, the unit is specifically set up for each combination of computer and setter using programmable read only memory chips (PROM) whose programs are decided at the factory.

In this way the maker can offer almost any interface while the user can if necessary use more than one system to connect a number of computers into the typesetter. Buffering and en-forced data rates to suit the lowest speed of the two con-nected units provide for optimum transfer rate.

## MACHINE TOOLS Recruiting youngsters

BECAUSE THE Machine Tools Trade Association believes that an outdated image of its industry is the major reason why many young people are not immediately attracted to it, the MTTA is to have open days dur-ing MACH-80 at Birmingham's NEC from April 22 to May 2.

The association wants to attract a greater share of the brightest young people from Britain's schools, colleges of technology, and universities, to become technicians, technologists and craftsmen of the future.

In order that students get an up-to-date impression of industry, including its high-technology, high-precision, and present-day sophistication, MTTA has invited over 3.000 heads of technical studies and universities with their students to spend a day at the exhibition. More from Archeliffe Road, Further information from Ian Dover, Kent CT17 9EN (0304 Whitaker, MTTA, 62 Bayswater

Road, London W2 (01-402 6671).

CRENDON

ONCRETE FRAMEWORKS

The right way

# Building and Civil Engineering

# Expansion plans at M&S

At Truto, the company to building a store which will give 21,200 sq ft of sales floor; at Barnsley, a new two-storey extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension will offer an addition of the major extension to extension to extension will offer an addition of the major extension to extension to extension to extension will offer an addition of the major extension to extension to extension to extension to extension will offer an addition of the major extension to ext

Kidderminster. Remaining work began fitting out new stores at of the street to incorporate it should start in the next few Harrow and Milton Keynes into the new sales floor extenweeks. At -Truro,- the company is nearly 50,000 sq ft of new sales

Kidderminster project will tract ever undertaken by Bovis extend an existing store into a new shopping mall, thus increasing the sales area from 8.300 to 14.700 sq ft. tract ever undertaken by Bovis 27.400 square feet. Finally, an extension at the doubles the size of the sales Eastbourne store brings the sales area here to 27,000 square feet. The three and a half year square feet. This store was

MARKS AND SPENCER has projects including a new store included a great deal of awarded contracts worth over 10,400 sq ft second floor sales complicated civil engineering area at Cambridge, and a work to take the store under the company has already 12,000 sq ft extension at Rose Street Lane at the contract. and the company has already 12,000 sq ft extension at started work on three major jobs at Truro. Barnsiey and Kidderminster. Remaining models at Cambridge, and a work to take the store under Rose Street Lane at the rear, and then deepen the becomes

Other new stores will open

## Due to start shortly are other extension programme at this opened earlier this month. £21m tasks for Fairclough

clough Civil Engineering Expected to be completed announces that it has been around the end of 1983, the awarded a £19.7m contract for whole scheme will rank as the second stage of the recon-struction of Shieldenhall to purify the Clyde will be sewag eworks, Glasgow. Scotland's biggest works. Efforts to purify the Clyde will be strengthened by biological

first stage of this project last is pumped into th eriver, year and will start on subse- One of the main sections year and will start on subse-

SCOTTISH DIVISION of Fair- quent work next month. struction of Shieldenhall to purify the Clyde will be sewag eworks, Glasgow. strengthened by biological The company finished the treatment of sewage before it

mentation tanks on the banks of the Clyde. These are to be constructed nearly 40 feet below ground. Concrete for the walls of the tanks will be placed in position by tower cranes. During construction of the

tanks, the site will be continuously dewatered by submersible tanks and, elsewhere on the four acre site, the company will build six aeration tanks for biologically pro-

cessing sewage.

Also included in the scheme is a new pumping station, plus Consulting engineers are
W. A. Fairhurst and Partners
of Glasgow, and architects are
company of the John Laing culverts and pipeworks.

Northern division of the company announces a £1.3m con-tract to build the first half mile section on the first stage of Liverpool's £40m Inner Ring



Ring: LEE GORING

01-643 8040 ext 4306

# City centre Swansea

DEVELOPMENT OF the St. Mary's and St. David's Square

levels includes a department store, three large and 12 smaller shop units, a licensed restaurant and a discotheque, representing a £10m investment.

covers the construction of the overall structural shell, includ-

bridge will provide access to the adjacent multi-storey car park, and there will be centred landscaped pedestrian areas with paving, trees and shrubs.

The company expects to NEW TRACK operations have complete the contract in two won Balfour Beatty southern

# **Spain**

station.

tracts. One is for the construc- spent in the Midlands and South tion of 6,500 yards of sewage Yorkshire on the modernisation service ducts for Madrid City of local authority housing at Council. The other is for Sheffield, Nottingham and Interbox SA at their Valde-Solihull. morillo factory in Madrid In Sheffield, Cubitts, members which manufactures a large of the Tarmac Group, will proportion of tin cans for improve a total of 349 homes Spain's canned drinks. Laing on the Manor Estate and at is installing service trenches, Edward Street under contracts pits and machine bases for a worth £1.65m. new production line.

## ENGINEERS block, a control tower, a fire G. H. Buckle and Partners who and rescue building, a transport West Power Stations in Abu

CONSULTING opened last April, have been appointed for the electrical and mechanical services, preparation and water services to be found nearly £1m, is for the gas of tender documents and super- at a modern airport complex, turbine back-up power stations vision of contract work for another new international air-port at Al Ain in Abu Dhabi.

The overall consultancy contract was won by a consortium comprising Scott Wilson Kirkpatrick and Partners (civil works): Murray Ward and Partners (architects): North-croft Neighbour and Nicholson (quantity surveyors); British Airports International (airport management consultants); T. W. Welch and Partners (naviga-tional aids); Minister Agriculture (landscaping and planting); and G. H. Buckle and Partners

The new airport will include also includes 164 Heat Mover prestige public areas and to international and national pas- ventilators and 4,500 sq metres supply furniture and finishes to senger terminals, an operations

including airfield lighting.

Buckle's involvement will cover equipment and installa-

tion to the tune of between £8m and £10m while the total cost of the airport was estimated a year ago at \$400m. THREE MORE Middle East contracts for metal building and ventilation products for H. H. Robertson (UK) add up to over £1.4m.

One worth £600,000 is for 30,000 sq metres of building cladding for the giant Wasir 2 Water Treatment Project in Jeddah. The order

Phase two of the Umm Al Nar were responsible for the repair building, a fuel comelectrical and mechanical pound, a VIP suite, a Royal for an additional 10,000 sq
services and acoustic design of Flight Pavilion and one 4,000 metres of cladding, chiefly
the new airport at Sharjah, metre runway. There will be Curv-line, for the boiler houses extensive air conditioning and and turbine hall.

all electrical communications The third new order, worth nearly £}m, is for the gas

> at Jeddah and Mecca. RECENTLY won contracts in the Middle East are worth over £2m to Wiltshier Group's Shop-

> fitting and Interior Contracting division. Included are Phases I and II of the new Sheraton Hotel in Bahrain involving high quality contracting to the Amiri suite

the royal suites.

has topped the £1½m mark on a local authority housing estate.
Under the latest phase of the development valued at £508,000, 50 houses will be modernised.

bringing the total value of

to build **FACTORIES OFFICES** & WAREHOUSES CRENDON CONCRETE CO. LTD Long Crendon Bucks. Tel: 208481.

New office block

SOUTH EASTERN division of the Rush and Tompkins group has been awarded a £1.5m con-A similar contract is being undertaken in the Damman Oberoi Hotel in Audi Arabia, where WIIC has secured work worth over film to fit out the prestige problem.

minium cladding and lead-faced roof panels, and is to be completed in 69 weeks.

## IN BRIEF

• Geoprosco International (part of Trafalgar House group) has won an extension to an oilwell drilling contract in excess of \$2.75 for the Abu Dhabi Combringing the total value of COSTAIN Construction has pany for Onshore Oil Opera-Estate to £1,567,000.

Work at The Hermitage for £1.6m with Glaxo Group Solibuli MBC involves the conversion of a children's home modifications to buildings on tions.

• Lesser Design and Build has received a contract worth about £650,000 for the first phase of shopfitting for the Boots' store One task, worth just under £1m. involves modifications to at Oldham Town Square Shopping Centre.

Steelwork contract worth

£475,000, has gone to Graham Wood Structural for supplies to the CEGB's Littlebrook "A" Power Station at Dartford, Kent.

• New work for John Laing includes building 10 new shops in Strangaer town centre under a £4m award, and a £150,000 contract on a form at Wetheral Shields. Carlisle, to be transformed into a sanctuary for siray animals.

Fortytwo houses, flats and a maisonettes are to be built under a fim contract by John Mowlem for the Borough of Kensington and Chelsea on the Swinbrook Estate. • Agreements between Con-

U.S. and Babcock Power license and commercial applications. Designed as a single racked During the past three months chamber served by two auto. H. Berkeley has won work.

and delivery of hardests. will accommodate up to 8,000 hoggin, building sand and home ment of another phase of its tonnes of various products. It age, etc. for various sites in the Twickenham project valued at will be Lloyd's-approved, and Greater London area

## More lines on Midland

won Balfour Beatty southern construction division a £3.2m contract awarded by British Rail London Midland Region. The works require the installation of 7.5 km of rail and associated overhead line equip-ment bases, together with the construction of an extension to the traction maintenance depot, battery house, coachworks building and upholstery store, fuel storage and refuelling facilities and a fuellers cabin

at Cricklewood, London.
Also included in the contract entrusted refurbishment to the existing traction maintenance depot and area maintenance engineers building.

Work will start soon and take until August 1981 to complete.

started work on two new con- MORE THAN £24m is to be

At Nottingham the company

Four tasks to Try

bungalows.

into ten flatlets for the elderly. The £357,500 contract also

includes the construction of 14

ORDERS WORTH over £21m have been secured recently by Try Construction.
These include two separate Store ich orders from the Home Office for £1.4m for a new manufacturing workshop building at Aylesbury

to the prison wall. pany renovation and extension work is worth over £1m.

London Borough of Hillingdon is to repair Harlington secondary school sports hall

following fire damage. This will cost over £400,000. B.A.T. Stores property division has awarded Try a loading-bank, this new facility further contract for the develop-

## building into a two-storey laboratory and research building to house a fermentation pilot plant and associated facilities.

store job

the outskirts of London.

an existing building, including electrical installation, air con-

ditioning and general finishings.

The other demands the conver-

sion of an existing single-storey

WORTH MORE than £1m, a contract with United Carlo Gatti covers the construction by prison and major improvements For the Rickmansworth and Smith and Partners of a 30,000 seco. of Medford, Wisconsta, Uxbridge Valley Water Comcubic metres (1m cubic feet) U.S. and Babcock Power license public cold-store at Attle- the British company to manneborough near Nuneaton in facture and market Consero's Warwickshire. Work has started range of heat recovery boilers: and will be completed during and heaters for all industrial, the summer

> matic doors leading to an open worth over Eam for the supply will offer bonded services.

Southern Scotland.



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site in Swansea's city centre is the subject of a £4.5m contract which Builders Amalgamated has awarded to Cementation Building, part of the Willett Traffic free shopping on two

involvement Cementation

ing reinforced concrete foundations, ground beams, and frame faced externally in brickwork. An elevated pedestrian link

# Laing in

Group, has been awarded six contracts together worth Also included in the contract £1.7m, to carry out work on are extensive alterations and industrial, public and sporting projects in various parts of

At Cofrentes in Valencia, south eastern Spain, Laing has started work on a 10-month project to construct a concrete trench for housing a network of gas exhaust ducts serving Updated buildings in the second phase of the Cofrentes nuclear power

In Madrid Laing SA has.

## (mechanical and electrical building services).

## COMPANY NOTICES

COMMERZBANK AKTIENGESELLSCHAFT The Annual General Meeting of Commerchank A.G. will be held in Municipal 2nd May, 1980.

AGENDA FOR THE MEETING: The Annual Statement of Accounts and Annual Report of the Board of Management of Accounts and Annual Report of the Board of Management.

—The Annual Report of the Supervisory Board, and —The Consolicated Annual Accounts and Annual Report, all for 1979:

To propose the payment of a dividend of DM 8.50 for every DM 50 annual annual annual of Shares held. To approve of the actions of the Board of Management for 1979:

To approve of the actions of the Supervisory Board for 1979:

To elect Auditors for 1980.

The United Kingdom shareholders who wish to attend and vote at the all General Meeting should inform S. G. Warburg & Co. Limited. 30 am Street. Loadon ECZP ZEB, or the Commerchank A.G. London Branch, Austin Friers, London ECZP ZID, by Z3rd April. 1980, either of whom make the accessary arrangements on their behalf.

Cooles of the Company's Annual Report for 1979 in German will be able shortly from 5. G. Warburg & Co. Limited. The Report in English course of preparation. COMMERZBANK AKTIENGESELLSCHAFT 24th March, 1980.

## **GOLD FIELDS GROUP**

NOTICE RE CLOSING OF REGISTERS OF MEMBERS
NOTICE IS HEREBY GIVEN that the REGISTERS OF MEMBERS of the
andermentioned companies will be CLOSED for the purpose of the Annual
General Meetings as follows:
Name of Company
(Each incorporated in the
Republic of South Africs)
Deelkrael Gold Mining Company
Limited

4 April to 11 April, 1980

PLANT AND MACHINERY

SALES

12in x 30in x 35in wide x 400 hp Four High Reversing Mill. 5in x 12in x 10in wide variable speed Four High Mill. 3.5in x 8in x 9in wide variable speed Four High Mill. 10in x 16in wide fixed speed Two High Mill.

150 x 100 mm x 15 hp rolls Two High Tape Rolling Mill.

110 x 100 mm x 10 hp rolls Two High Tape Rolling Mill. 2) WIRE FLATTENING AND NARROW STRIP ROLLING MILL,

10in x 12in wide fixed speed Two High Mill.

6in x 16in x 20in wide Four High Mill.

two stand by RWF, 10in x 8in rolls.

3) CUT/LENGTH LINE 1,000 mm x 2 mm.

6) SLITTING LINE 1,220 mm x 5 ton coil by Cam.

7) SLITTING LINE 920 mm x 10 ton coil by Cam.

13) No. I FICEP SCRAP SHEAR 75 x 35 mm Bar.

16) FORGING HAMMER 3 cwt. slide type, Massey.

by Barcro (24in x 25 hp drawblocks).

200 TON HYDRAULIC PRESSES. Excellent.

200 TON CLEARING PRESS, inch stroke.

Tel: 01-928 3131.

ERIEF

LARGE INTERNAL GRINDER, swing 5fc, excellent.

9) SLITTING MACHINES 36in and 48in by Weybridge.

10) SLITTING LINE 920 mm x 2 mm x 2 ton coil A.R.M.

14) SHEET LEVELLING ROLLS 920, 1.150 and 1.850 mm wide.

17) VERTICAL WIRE DRAWING BLOCKS 24in dia x 25 hp.

19) WIRE DRAWING MACHINE, MARSHALL RICHARDS VARI-ABLE SPEED 6 BLOCK PACEMAKER (25 hp x 22in in line.

26) TWO HORIZONTAL DRAWBLOCKS 36in and 24in, Farmer

21) WIRE DRAWING MACHINE 9 DIE cone type, Unity.
22) WIRE DRAWING MACHINE 15 DIE cone type, Marshall

23) NINE BLOCK WIRE DRAWING MACHINE AND SPOOLER

Wednesbury Machine Co. Ltd.

Oxford Street, Bilston

Tel: 0902 42541/2/3 Telex: 336414

WICKMAN 6 SP AUTOMATIC 21", reconditioned to maker's limits.

Rolis Tools Ltd. 154/6 Blackfriars Road, London SE1 8EN

Telex: 261771.

WICKMAN 6 SP AUTOMATIC 17", rebuilt to maker's limits.

WICKMAN 6 SP AUTOMATIC 14", rebuilt to maker's limits.

15) HYDRAULIC SCRAP BALING PRESS, Fielding & Platt.

18) AUTOMATED COLD SAW, non-ferrous, Noble & Lund.

4) CUT/LENGTH LINE 750 mm x 3 mm. 5) CUT/LENGTH LINE 400 mm x 3 mm.

11) PLATE SHEAR 4ft x lin Cincinnati.

12) GUILLOTINE 8ft x 0.125in Keetona.

8) SLITTING LINE 300 mm.

1) ROLLING MILLS

4 April to 11 April, 1980 By order of the boards, C. E. WENNER, London Secretary.

oend payment of 35% equal to USSO.35 or along about the transfer of USST83.930. The province the transfer of USST83.930. The province the transfer of USST83.930. The province transfer of the secondary for the year coling 31st December 1990.

To transact such other business as may properly come before the meeting. Holders, of bearer shares wishing to vertice their rights at the meeting should possit their shares with Kielnwort, Benson Seneral S.A., place du Rhône 2. 1211 seneva 17 (Switzerland), or at any other ank which is acceptable to Kielnwort, esson identification in the secondary of the se

no. the Tokyo Stock Exchange or such dividend.

Accordingly Kiefmort, Benson Limited hereby informs EDR holders that Coupon No. 8 to the EDRs will be used for the purpose of claiming this dividend and will be deemed to mature at the close of business in Lucembourg on 25th March. 1980. After that time Coupon No. 6 should herefore be detached from any EDR presented for surrender and will not be issued with any new EDR. Author notice will be published stating the another for the surrender of the surrender for obtaining particular to be followed for obtaining particular to the divised by the Depository receipt of the day and the shareholders' register on 1st April 1980 and re-open it on the day and freedom of the ordinary according to the profiler of the control of the control of the control of the control of the profiler of the control of the cont of share withorawn or the ED4s.

" of ED4s.

KLEINWORT, BENSON LIMITED Depositary.

## **LEGAL NOTICE**

Dated this 14th day of March 1990. P. MONJACK, Liquidator.

## DORSET LITHO LIMITED

GENSVA. Basie. Zurich and Berne. widest choice of chesp flights from 4 U.K. airports. Brochure FALCON 01-351 2191.

KLEINWORT BENSON INTERNATIONAL FUND N.V.

NOTICE OF ANNUAL GENERAL MEETING TO BE HELD ON JOIN APRIL 1980
NOTICE IS HEREBY GIVEN that the
Annual General Microso of snarebolders
of Kichwort Benson International Fund
NV. will be held at the office of the
Company, Handelskage B Curaçao Metheranis Antifest, on Thursday 10th April
1980, at 10.00 hours bocal time) for
the purpose of: e purpose of:
Approving the Company's statement of
Approving the Company's statement of
assets and liabilities as at 51s; December
1979 and its statement of income and
expenses for the year ended 31st
December 1979.
Approving the declaration of a dividend payment of 355% equal to US\$0.35

NOTICE TO HOLDERS OF NOTICE TO HOLDERS OF EUROPEAN DEPOSITARY RECEIPTS

NOTICE IS HEREBY GIVEN that it is the internion of the management of Rhythm Worth C. of the Company 7. to pay the management of the fact that the company 7. to pay the cash divided in respect of the year enfinal 13th March. 1980, to shareholders on 13th March. 1980. Committeeing on 28th March. 1980. Committeeing on 28th March. 1980. Committeeing on 28th March. 1980. the Shares will be traded on the Tokyo Stock Exchange on such

London 24:h March, 1980.

THE COMPANIES ACTS 1948 TO 1967 CELIA MORTIMER (LONDON) LIMITED

NOTICE IS HEREBY GIVEN that the Creditors of the Dovernatured Company are required on on before the 25th day of April 1980, to send their names and addresses and the particulars of their febra or clems, and the names and addresses of their Solicitors if any, to Philip Monjack, FCA, of 3/4 Bentinor Street London WIA 3BA, the Liquidator of the anid Company, and if so required by notice in writing from the said Liquidator, are by their Solicitors, or parenaelly, to come in and prove their said debts or claims at such time and place as shall be specified in such notice, or in default thereof they will be excluded from the benefit of any distribution made before such debts are proved.

NOTICE IS HEREBY GIVEN pursuant to Section 293 of the Companies Act, 1948, that a Meeting of the creditors of the above-named Company will be held at the offices of Leanard Curris & Co. situated at 3/4 Benninck Street, London W1A 3BA, on Tuesday the 1st day of April 1980, at 12 o'clock midday, for the purposes provided for in Sections 294 and 295.

Dated this 13th day of March 1960.

V. P. MILNER, Director.

## TRAVEL

## FOR SALE BY PUBLIC AUCTION THURSDAY 24TH APRIL 1980 AT 10.30 A.M. IN THE ROOMS OF L. J. OOKER LTD, 175 PITT STREET, SYDNEY. 2000 Aunique near-city approved building site

This extraordinary site fronts Victoria further 488 units, dwellings, with a Street, Potts Point, Sydney (numbers balanced proportion of commercial 55 to 99) and Brougham Street on the space for speciality shops, restauwestern boundary.

It comprises 9,902 m.2 (106,585 ft.2) and commands panoramic views of Eastern Suburbs beaches and golf the city, harbour, Royal Botanic courses. The area features many Gardens and the Opera House, all of excellent restaurants. which are within easy walking These factors contributed to the distance, as is the Eastern Suburbs heavy demand and ready sale of the railway (Kings Cross Station), which 155 units in Stage I of the project. is one train stop from Martin Place, The demand continues and many of the city centre.

Development approval exists for a resold with substantial profits to the

rants, etc. The site for sale is a short drive from

the Stage I apartments have been





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INDUSTRIAL BUILDING IN BURGOS - SPAIN 10,000 sq. mtrs. plus 1,000 sq. mtrs. OFFICE

quality building at modern construction. Located in official development area with excellent facel rebates. All facilities (electricity, water, gas, etc.) available. Adequate for all type of industries. Please contact owner in-

Barcelona Phone: (93) 330.65.11 (Miss G. Sagasti)



# Arabian Gulf Oil Company

## Enrolment on Suppliers' and Contractors' Record for 1980-1983

The Arabian Gulf Oil Company invites Suppliers and Contractors to enroll on their Record for 1980-1983 on or before 30th May 1980. For Applications please follow the following procedure:

L Applications shall be submitted or sent by registered Air Mail to:

Tenders Committees Secretary, Arabian Gulf Oil Company, Post Office Box 263, Benghazi. Socialist Peoples' Libyan Arab Jamahirya

II. Envelope shall be marked "Application for enrolment on Suppliers" and Contractors' Record for

III. Applications shall be composed as follows:

A. General Information: Business Name

Headquarters Address 3. Telephone Number Cable Address Telex Number

B. Financial and Production details: Paid Up Capital Authorized Capital

3. Value of Contracts during Last Three Years Maximum Productivity

(for Manufacturers)

6. Nationality7. Date of Establishment 8. Type of Activity: (Contractor, Manufacturer, Suppliers and Agent)

5. International Codes and Standards adopted 6. Items usually Sub-Contracted 7. Manufacture Locations

(for Manufacturers)

C. Item Groups applied for:

GROUP No. ITEM No. III. (Continued)

D. Manpower available:

- Administrative - Technical

 Ordinary Labourers -Others

E. Affiliated Companies: Names, Addresses and Nationalities.

F. Works executed in the Socialist Peoples' Libyan Arab Jamahirya.

G. Works executed for Arabian Gulf Oil Co.

H. Branch in Libya or Resident Representative in the Middle East! North Africa/the Mediterranean: 4. Address
5. Telephone Number L Business Name Nationality

6. Telex Number IV. Applications shall be clearly written or typed; all explanatory

Brochures, Catalogues and previous experience should be enclosed. Applications and relevant Documents shall be submitted in Triplicate.

VI. The more information and details be given, the more opportunities of participation in Tenders be offered.

VII. Applications should specify the items for enrolment from the following groups stating the Group No. and the Item Number as per

Following are the Groups:

## GROUP I. SPECIAL TECHNICAL MATERIALS AND REQUIREMENTS FOR EXPLORATION, PRODUCTION AND DEVELOPMENT

Casing and Production Pipes for Water Wells.

Casing and Production Pipes for Oil Wells. Well - Heads and Drilling Bits

Joints, Elbows Valves and other parts for Pipes and attachments. Clay, Chemical Materials and all kinds of Cement.

Tools and Instruments. Laboratory Equipment.

Spare Parts for Generators, Engines and Pumps. Spare Parts for precision instruments.

Telecommunication Equipment. Tools and Materials for cleaning Pipes and Production and Freight Equipment.
 Fire and Explosion Protective Clothes.

Geophysical Computer Equipment. Spare Parts and Supplies for Geophysical Computer.

15. Explosives. 17. Meters and Computerized Meters.

18. Mechanical/Electrical Services to Drilling Rigs.

GROUP IL SPECIALIZED TECHNICAL SERVICES

Chemical Treatment of Production Plants. Special Wiring Operations. Pipe Laying and Maintenance of Gas/Oil Pipe Lines. Gas Turbines.

4. 5. Pumps. Radio.

Baxman Engines. Cathodic Protection of Main Pipe Line. Replacement of Prover.
 Pressure, Volume and Thermal Analysis.

12. Survey and Localization.13. Well-Drilling. 14. Well Testing Special Equipment.

Geophysical Operations. Geophysical Data Processing.
 Preparation and Analysis of Coring Samples. 18. Pipelines Corrosion Pig Survey. 19. Reservoirs Evaluations.

20. General Technical Services. 21. Electrical Power Net Work Analysis. 22. Telemetering and Control Systems Design.

GROUP IIL STRUCTURAL AND MECHANICAL MAINTENANCE SERVICES

Sand Removing and Conveyance, Embarkment and Levelling. Building Construction, Road Paving and Maintenance.

Electrical, Plumbing, Carpentry, Painting Work. Sanitary and Forgery Works. Maintenance and Repair of Mechanical Vehicles.
Construction and Building of Petroleum and Water Tanks.
Repair and Rewinding of Electrical Machines.

Forgery Works.

**GROUP IV. CONSULTANTS SERVICES** Financial and Administrative Consultations.

Technical Petroleum Consultations. Other Technical Consultations.

**GROUP V. GENERAL SERVICES** 1. Tankers Piloting Boars.

Heavy-Duty Vehicles of Different Sorts and Capacity. Levelling Tools and Equipment.

Dredges and Cranes. Nutrition and Victualling Services. Cleaning Services.

Advertising (Local and Abroad).

 Cinema Films and Film Projectors.
 Photographing and Cinema Photography. GROUP VI. STATIONERY AND HOUSEHOLD APPLIANCES

AND MATERIALS 1. Furniture and Household Appliances: Refrigerators, Ovens, Air Conditioners

Typewriters, Calculators and Photostat Instruments, with Repairs and

Designing and Printing - Information Materials and Instruments.

Cleaning and Sanitary Materials. Stationery and Office Materials. Supply of Scientific Books and Magazines, Newspapers, Clothes and Foot-ware.

IX. Violation of any of the foregoing instructions will lead to ignoring your

X. For further information please refer to the Tenders Committees Secretary at the address shown in I above.

## INTERNATIONAL TENDER

## FOR THE PURCHASE OF ROADECONSTRUCTION AND MAINTENANCE EQUIPMENT

Invitation No. T-07/72 The Provisional Military Government of Socialist Ethiopia, Ethiopian Roads Authority, announces the release of an international tender for the purchase of road construction and

maintenance equipment. A loan is being sought from the African Development Fund (A.D.F.) and interested bidders from member countries and participating states of the A.D.F. are requested to collect bid schedules and specifications during office hours from the Procurement Office, Room 106, of the Ethiopian Roads Authority against payment of Birr 10.00 for each set of documents.

Bids will be opened in public in the Conference Room, 4th Floor, of the Ethiopian Roads Authority headquarters building on April 30, 1980, at 10.00 hours Addis Ababa time. The Authority reserves the right to reject any or all bids that are not in conformity with all conditions, and specifications mentioned in the tender.

Ethiopian Roads Authority

## MAZAGON DOCK LIMITED

## BOMBAY -

INVITE TENDER FOR SUPPLY OF ONE NUMBER NEW OR SECONDHAND FLOATING OR SEMI-SUBMERSIBLE DERRICK-CUM-PIPE LAYING BARGE HAVING FOLLOWING PARTICULARS MAINLY FOR OPERATION IN TROPICAL AREAS SUCH AS ARABIAN SEA, INDIAN OCEAN, ETC.

120 m approx. About 30 m Length Overall Depth Derrick Capacity Fixed 700 m/c

Boom Length Main Pipe Laying Capacity

Accommodation

Heli-Deck

Year of Build

11) Slewing 500/550 m/t both at 27 m radius About 70 metres Up to 900 mm dis. in 100 metre depth in tension of about 72.5 m/t with at least 6 welding stations 250 persons

Suitable for helicopter with 12 persons and 200 kg cargo Not earlier than 1972

Year of Build Not earlier than 1972
Ofter may be submitted in duplicate with detailed specifications and general arrangement piems indicating year and country of manufactura, terms and conditions, to "The Commercial Manager, Maragon Dock Limited, Bombay 400 010, India." in scaled envelope superscribing Tender No MM/PKD/0P/DB on or before 12.00 noon of 30th April, 1980. Tenders will be opened on same date in the presence of such of the tenderers who may wish to be present Offers should be valid for a period of 90 days from the date of opening of tender. Prices quoted should be lumpsum inclusive of free-delivery to Bombay port Berge is to be made available for inspection and performance at place of deployment within 15 days notice. MDL reserve the right to accept or reject any tender without assessing any reason whatspeyer.

## The United Arab Emirates Ministry of Public Works and Housing

P.O. Box 878 Abu Dhabi - Tel: 62275 P.O. Box 1828 Dubai - Tel: 664900

INTERNATIONAL COMPETITION FOR THE OFFER OF CONSULTANCY SERVICES FOR THE DESIGN AND SITE SUPERVISION OF THE MINISTRY OF FOREIGN AFFAIRS BUILDING PROJECT IN ABU DHABI No. MB/22/30/1A/80

The Ministry of Public Works and Housing is pleased to invite International and Local Consultants to submit offers for the open project on the Foreign Affairs building in Abu Dhabi.

All experienced consultants who have executed similar works of 50m UAE Dirhams or over and should like to participate in this tender should obtain the conditions and the programme from the Tender and Contracts Department in the Ministry of Public Works, Abu Dhabi and Dubai, during working hours from 8.00 am to 2.00 pm as of Saturday 16/2/1980 against the sum of DHS 3,000 (three thousand Dirhams). Offers should be submitted to the Ministry office in Al Butain, Abu Dhabi not later than 12.00 noon on Sunday 25th May 1980.

> Mohamed Khalifa Al Kindy Minister of Public Works & Housing

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# Doing business the Confucian way

Richard Hanson on a company which claims altruism as its reason for expanding from its home base of Taiwan

has become a catchphrase in the the West among people trying economy. to explain the extraordinary Singapore. South Korea and other Far East nations. Yet Far Eastern industrialists them of the total. selves seldom make explicit their debt to the age-old philosophy of Confucius.

Not so Dr. T. S. Lin, chairman of Taiwan's second largest multinational. Tatung, whose electronics business has mushroomed ten-fold in the past

Dr. Lin, a title he bears proudly in his dual role as president (and teacher) at the company's respected Tatung Institute of Technology, is convinced that the 18th century ideas of Adam Smith and his profit-minded ilk offer no solu-tions to the problems faced in the latter half of the 20th century. He claims that his farflung empire is really the extension of a Confucianist missionary zeal to do good.

declares in his appointed private modestly appointed private construction company and itself, which dining room. Even the name of became the island's first steel purchase of the company (Taiwan's oldest) and machinery maker two years products.

world is a family."
Dr. Lin's stated business goal is to "help his friends around the world." On profit, the god Western capitalism, he share with your customers." Under Dr. Lin's leadership, as company president. phenomenal success. Sales have Lin bimself is still firmly in one should report his longleapt from less than \$80m in 1972 to nearly \$800m last year (a stunning 114 per cent rise over 1978's figure). The export fast he intends to get there. ratio is now about 25 per cent. Tatung is not too well known

away a poor set of results by pointing to all those damaging events that were beyond management's control. A lorry

drivers' strike here, a revolu-

tion in Iran there, and oil price

If there is no convenient crisis which fits the bill, why

not blame the hostile social and

political environment in which

the company struggles to sur-

vive? Then there is always the

cost of the employment laws,

of the equality legislation, of

improving health and safety at

work, of reducing pollution levels . . . the list is endless.

slowly and are easier to fore-

developed by a small group of

enshrined in legislation, is very

But there is a considerable

rises everywhere.

"CONFUCIANIST cohesion" overseas, but it looms large in growing

With around 25,000 employees. industrial success of Japan, in 1978 Tatung's revenues were equal to 1.6 per cent of Taiwan's GNP and its exports 0.6 per cent

> Competition from dozens of foreign electronics companies which have invested in Taiwan keeps Tatung at number four on the list of leading electronics exporters (behind giants like R.C.A and Zenith). But it is the leading domestic producer of a wide range of consumer electronic goods such as colour TVs and home appliances, with expanding involvement in such areas as heavy electrical equipment and telecommunications. These are all areas in which Taiwan sees strong growth for the 1980s.

## Family

Chairman Lin, now 61 years old, assumed his post in 1942 at company had only about 180 "Confucian philosophy still employees. Tatung had been keeps its brilliant light," the founded by Dr. Lin's father in chairman declares in his 1918 as a civil engineering and 1918 as a civil engineering and is Confucian, meaning the before the Pacific War broke "world is a family."

out. The strong family tradition in the company (which is public, with about 20 per cent of the shares in the hands of Tatung employees) appears set to continue for many years; Dr. Lin's own son is now serving

There is little doubt that Dr. command of the company's range goal of using the Ameridevelopment; he is quite sure of where he wants to go and how



giants of the electronics sales goal of Sibn by the end industry. Already the company of the decade. has taken the first few steps into overseas markets as a manufacturer.

In Singapore and Hong Kong it has assembly plants for both black and white and colour televisions. Through indirect routes its products are re-portedly becoming quite becoming quite mainland China popular in itself, which encourages the made-in-Taiwan

In the U.S., Tatung claims to be the largest producer of electric fans. It has just constructed a colour TV plant, with an initial capacity of 5,000 sets per month, at Long Beach in

Lest one be unimpressed with

the small scale at which Dr. Lin is beginning in the U.S., can plant as a base not only for U.S. sales (which may be difficult because of limited market-

itself in most of the major parts of North and South markets of the world, but Dr. America, Africa, etc. Starting Lin does not seem to mind con- with U.S. sales of around \$30m per year, Dr. Lin has set the

The idea of exporting from America, while the U.S. is still being flooded with electronics goods from overseas, may seem slightly far fetched. But Dr. Lin claims it can be done. His motivation, of course, is that exporting from the U.S., his friendly host, is exactly what is needed to cure the chronic American balance of payments problem.

Dr. Lin is also probing "friends" in Europe to find a suitable place to build a TV plant, or set up some kind of venture arrangement rumours Taiwan's capital, have it that Ireland is the most likely site, but it was also suggested that Tatung had a fleeting interest in acquiring the television part oi Britain's Decca.

Dr. Lin is also known to be interested in working out some kind of agreement with General Motors of the U.S. to build cars Tatung faces a long uphili ing capability) but as a launch- in Taiwan (GM is in the final There is little doubt that Dr. struggle in gaining a name for ing pad for exports to other stages of talks on a joint ven- Lin is serious about his

ture truck plant for the island). The government in Taipei has been actively promoting the idea of large-scale car assembly. Dr. Lin is most often

criticised by outside observers for his lack of emphasis on making profits, and for the sometimes uncertain state of a result of heavy capital spending and borrowing. No one, however, would go so far as to suggest Tatung is in any danger of financial collapse.

of financial conapse.

Tatung's profits did slump in the mid-1970s, but Dr. Lin has managed to improve profitability from about 4 per cent of sales in 1975 to 6 per cent in 1979. Net earnings in 1979 of \$5.1m was nearly triple the 1978 figure.

Tatung does insist. however, investing in projects, such the American TV plant. which will only turn in a profit in the long run, if ever. And his profit margins on products helieved to be slimmer than the foreign competition.

## Strained

A financial upset would be particularly embarrassing given Dr. Lin's position in Taiwan as chairman of the powerful National Federation of Industries and as speaker of Taipei City council.

There is also some doubt as to how strained Tatung's own management resources will become as the company continues to grow overseas. Dr. Lin himself seems to keep a schedule which would strain almost any executive. The time devoted to Tatung occurs mostly during early morning, evenings and weekends.

philosophy of basing business relationships and expansion on the idea of benefiting all parties involved. rather than on exploitation of one side by the

Tatung itself has been the beneficiary of links with other companies.

The most important is with Toshiba of Japan which holds a 6 per cent stake in Tatung. Starting in the early 1950s, Dr. Lin negotiated a series of licence agreements to secure Toshiba know-how for the production of wattmeters, motors, transformers, TVs, and other products. Tatung has also been producing refrigerators for sale in Japan under the Toshiba brand. Moreover, Toshiba provides the colour picture tubes for Tatung televisions and is the source of Tatung's technology for starting up tube production in Taiwan. But Tatung is not willing to

be dominated by any other company. This is perhaps reflected in the structure of its U.S. TV venture, where it holds 50 per cent, the other half being split among a large number of small investors, mostly small U.S. banks and

Tatung's growth over the past decade reflects the enormous expansion of the electronics inlustry in Taiwan, helped by large doses of foreign invest-ment. From an annual production valued at about \$364m in 1970, the industry achieved an output of more than \$3bn last year (about 75 per cent is exported). In the next three or four years, electronics is

the number one export earner. Tatung's long-range strategies might not appeal to the manage ment of a western company because they will not produce profits for a long time. Dr. Lin. however, expects to be around for many years to come, having already served 38 as chairman. From his island home of Taiwan, he sees the Confucian way of doing business as an integral part of the future.

## Management abstracts

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The Future of the Multinational Corporation. W. J. Keegan in Journal of International Business Studies (U.S.), Spring/Summer 79: p. 98 (7 pages, charts)

Points to the rising tide of nationalism around the world, and discusses the threat this poses to multinationals, unless they are capable of demonstrating that they produce an econ-omic gain which could not otherwise be achieved and that the gain is being shared out equitably; offers scenarios for five political-economic regions of the world and identifies future threats to multinationals.

How to Compete in Stagnant Industries. R. G. Hamermesh & S. B. Silk in Harvard Sept./Oct. 79: p. 161 (8 pages, tables).

Identifies common character-istics of business strategies that have succeeded in stagnant industries, and outlines top management's role in the growth, innovation or cost reduction processes. Stresses that stagnation should be accepted as a fact of life, not

that the need for good managers must be recognised. Transfer Pricing and its Misuse: A. Smallman in European Journal of Marketing (UK), No. 4/79: p. 167 (5 pages, illus., charts)

a sin, that milking the business for cash should be avoided, and

Gives examples of the distortion that inter-divisional pricing can cause to marketing decitowards social responsibilit sions; argues that the marketing reporting, and argues that if

These summaries are con- an example of a reporting

Accounting for inflation in the Capital Budgeting Process. D. D. Raiborn & T. A. Ratcliffe in (U.S.), Sep. 79: p. 19 (4 pages, tables)

Points to distortions that inflation can cause in capital expenditure projections; discusses how assumptions on the way inflation will affect the components of the projection can be brought within the appraisal process, particularly when the net present value model is used.

Audit Committees: are the High Hopes Well-Founded? E. Hopes Well-Founded.

Woolf in Accountancy (UK),
Oct. 79; p. 73 (1 page).

Takes a sceptical look at the current enthusiasm for audit committees, and suggests that (1) in most companies they would add to the bureaucracy but achieve little else; (2) in the minority of companies where tame non-executive directors are brow-beaten there is no reason to think that they would take a more independent line against the chief executive if they appeared under the guise of an audit committee.

The Search for Executives. J. Wareham in Across the Board (U.S.), Sept. '79; p. 28 (4 pages)

Discusses reasons why executive search firms sometimes fail to deliver the goods-identified as seeking the unattainable can-didate, failure to make all the necessary contacts, failure in candidate appraisal, and breakdown of final negotiations.

Cost-Repetit Analysis of Corporate Responsibility: L. J. Brooks in CA Magazine (Canada). Oct. 79; p. 53 (5 pages, tables)

Points to a gradual move towards social responsibility manager ought to know the company is to take its social "true" variable costs incurred by the group, and ought to be judged not on the financial reporting and bring social and reporting and bring social and properties are social and reporting and bring social and reporting and bring social and reporting and properties. results of his subsidiary but on environmental considerations the real contribution earned by into capital investment decithe group from the subsidiary. sions; demonstrates how this less the local costs incurred to produce that contribution; gives of cost-benefit analysis.

# How the public and its peers differ on corporate priorities

all parts of society with which they have contact. The environmentalists and local communities protest at how a company pollutes their

chemicals, and insist they want their rivers kept clean. The and safer products, and if they are going to eat them they want to know what they contain. The difference between the two cate- employees want better and safer gories of excuse. The sudden conditions of work, governments crisis is very hard to predict. want all manner of things, and want all manner of things. and whereas changes in the social at the end of the year the shareenvironment generally occur holder wants a better dividend.

How can a company identify The gestation period those issues which are going to en an idea being affect it and sift the important ones which need a response people to it achieving mass from those that can be ignored appeal, and finally being —for the time being anyway. It is common for companies

for poor corporate performance issues which may affect a busi-but a sign that the management ness is very limited indeed. was unprepared for the changes. Such considerations are gener-Few people would disagree ally left to the instincts of the

be exceptional. In Britain, by contrast, it receives scant atten-

One of the organisations offering a service which tries to identify the key issues is Inbucon, the second largest firm of management consultants operat-ing in the UK. Its "Corporate Priorities" programme, begun 18 months ago, has brought to this country some well estab-lished techniques which were developed by its sister firm of U.S. consultants. Yankelovich, Skelly and White.

## Newspapers

The analysis is done in two basically conventional opinion ong. to conduct extensive economic survey of the general public, and the U.S.

In other words, social changes and marketing analyses, but any and also what it calls "in- For instance not an acceptable excuse systematic study of the social depth" discussions with that anti-busing the comparate particular analyses, but any and also what it calls "in- For instance and the U.S.

The comparate particular and t ' leaders." These include. among others, top civil servants,

"European Trends." This is

nique, by analysing the content of a great number of local newspapers. It is based on the notion that, since there is constant limited amount of space available in a newspaper, the issues on which it concentrates

will reflect those which concern the local community most. This interesting thought seems questionable from the journalist's side of the printing presses, but its proponents claim that the results bear them out.

interesting divergencies between what the "leaders" believed and what the general public ways. Corporate Priorities saw as important. And there report is based on an extensive, were some particularly surpriswere some particularly surpris-ing differences between Britain

For instance, it demonstrated that anti-business sentiment in the U.S. runs much higher than in Britain. As a source of infortrade union leaders, academics, politicians and senior people in the various media.

mation to the public, corporate executives are seen as twice as credible in Britain as in the U.S. that the environment in which management.

The various media.

The British public, according the various media.

The second element, which becoming more hostile. Companies are increasingly under political pressure—both present consists of an analysis of a much greater awareness of trast to leadership views, the the relationship between pro-

prepared using an updated ductivity and earnings than its World War II intelligence tech-In the U.S. 60 per cent of the general public sample agreed that "employees had a right to a raise every year" whereas in the UK 72 per cent actually disagreed with the statement that salaries and wages should increase without improvements in performance. (The survey was made 12 months ago, before

the Tory election victory.) More revealing-for the prediction of future issues which will affect business - are the Last year's Corporate Priorities programme showed some "leaders" and the general public.

Take pollution. The "leaders" small group of 34 people, since gramme) appeared to be rather facturers' liability. this was only the initial pro Inbucon reports complacent. that they were generally satis-fied with the progress made in reducing air pollution, and believed that industry had adapted responsibly to govern-

ment regulations. public regards air pollution as

a major public matter of cona major photic matter of con-cern. Nearly nine people in ten say that air pollution is an issue of some urgency, with almost three in four members of the public calling for improve-ments in regulation enforcement

or stricter controls." Waste from factories and lead vapour from petrol appear to be the British public's primary concerns. Concern at pollution was felt by all members of the public irrespective of age, education or economic status.

"Business will have to find ways to respond," says the Inducon study. "The level of public concern is such that any major accident in Britain, such as the chemical leak at Seveso, Italy, will certainly cause vigorous public reaction and cries for new regulations."

Another marked difference between the level of concern shown by the leaders and the general public, is on product safety. Again the leaders are in the UK questioned (a fairly fairly complacent, although they recognise that the EEC will

But, says Inbucon, product safety is a key issue of urgency to the public. It ranked imediately below inflation and Government planning as an issue which is "fairly urgent" and personally affects the indivi-

Details: Clara Richardson. Inducon, 197, Knightsbridge, London, SW7. Jason Crisp OUT

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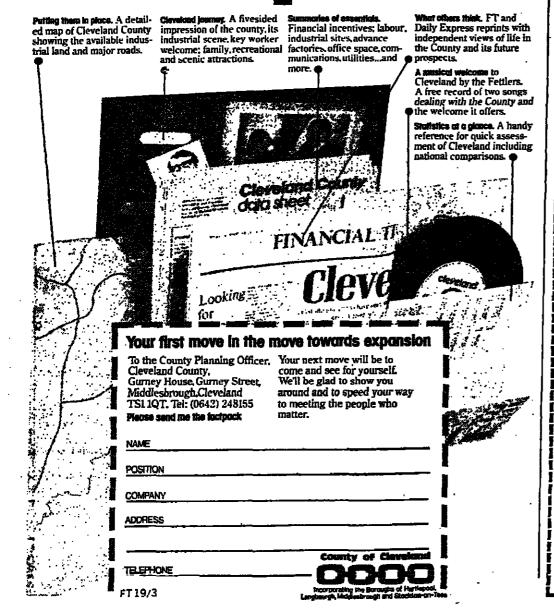
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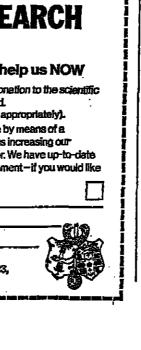
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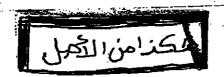
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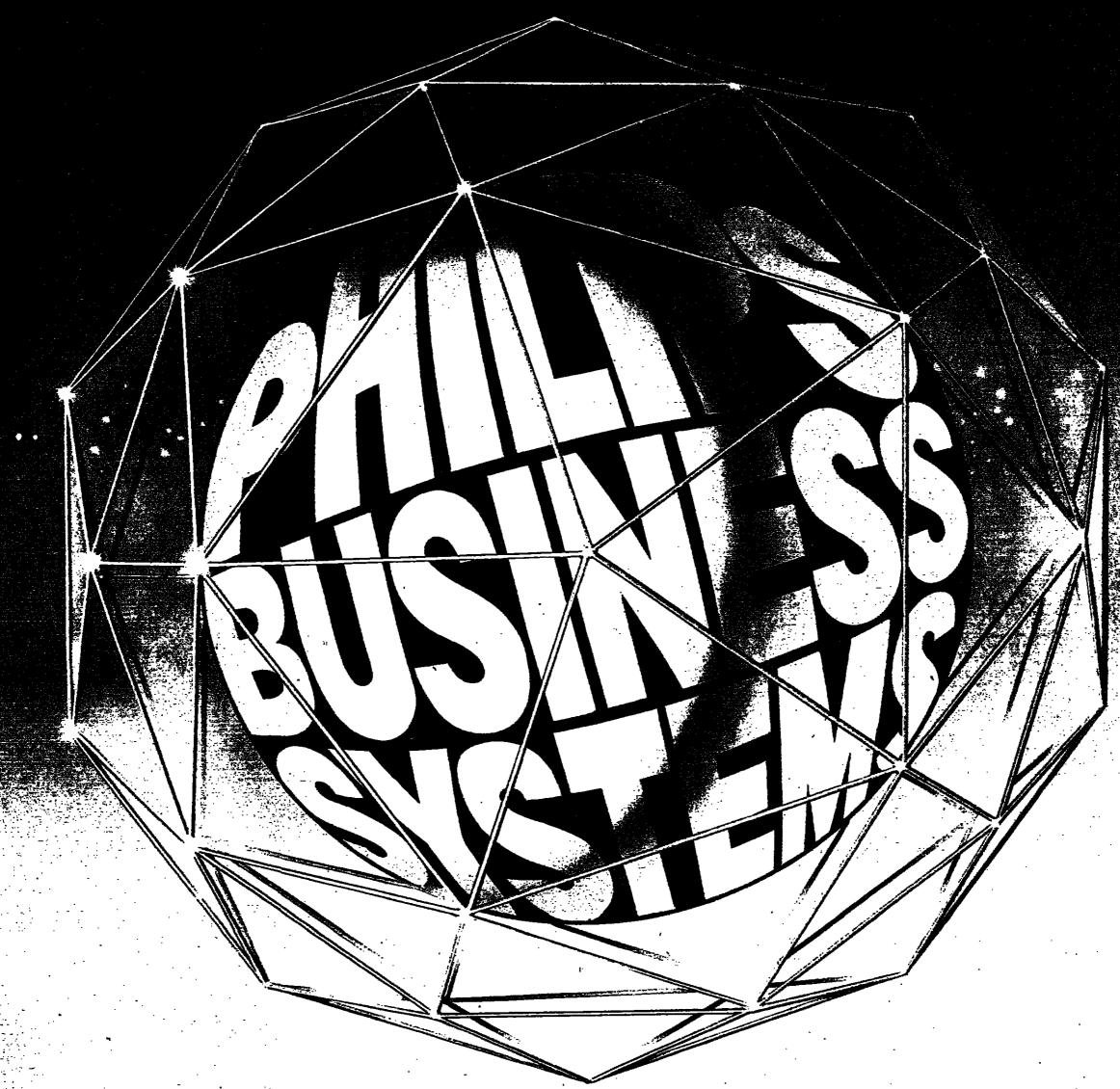
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Simply years ahead



# How to control money now

BY SAMUEL BRITTAN

duction, which reads much more on major policy matters. like the Treasury than the The main substantive argu-Bank. This explains why there ment against a move to the can never be one perfect monetary base is the danger measure of the money supply: that the transition will undermeasure of the money supply: but that it is convenient to use the most widely known definition "Sterling M3" to state the target and influence expectations. Other aggregates will be cator System discussed in the watched to make sure that policy is followed in the spirit as well as the letter; and the definition chosen is not sacrosanct for all time.

## **Technicalities**

In practice the most impordistortions are those imposed by the authorities themselves-above all the "corset"make the numbers look better, without paying the interest rate price of a proper money supply policy; and it is good news that the corset is soon to meet its death.

As far as the practical control of the money supply is con-cerned, the key rule is that a market-related MLR—which central banks cannot control both the quantity of money and the Bank of England broke the the level of interest rates. If link in May 1978, a blunder they try to do both they are likely merely to generate an politicisation of interest rate inflation which will eventually policy which the Bank makes lead to both money supply and interest rates soaring out of control. This simple rule is far more important than the instilutional technicalities likely to dominate the threatened six months of discussion.

to control by regulating tions: and leading indicators hankers deposits at the Bank of could be used experimentally England—the so-called "mone- and informally as a guide to tary base" or cash ratio method is twofold. First, they are all trees and no wood-a reileration of familiar negative points. The one mistake of the excellent BBC series "Yes, Minister" is to overlook that the Sir Humphreys of this world successive Ministers are in the financial area more likely to be in the Bank than in the Civil Service.

But my second reaction is that this is the wrong battle-mitment so long as it finances ground on which to fight them. itself by sales of unindexed The effort required for a war of attrition-which would prob- tion yields near 15 per cent.

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outh East only).

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5.40 News.

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6.40-7.55 am Open University

BY FAR the best part of the ably not succeed without Treasury-Bank Green Paper on nationalising the Bank in Monetary Control is the Intro- earnest—would be better spent

And the first state of the second state of the

mine the monetary control.

The germ of a better alternative is to be found in the Indi-Green Paper. In its simplest form, increases and decreases Minimum Lending Rate (MLR) would be automatically triggered off by departures of money supply from the override—either for political prison population reached an reasons or technical reasons. all-time high of 14,800 (five But there would be a greater degree of automaticity than at present with the onus placed on those who wanted to intervene.

## Market-related

The defect of the Indicator system is that the MLR would still be an administered rate. It would be much better to have we indeed used to have until which encouraged the very a show of deploring.

The MLR should be put back on a market-related basis immediately but preferably linked My own reaction to the are heavily influenced by the in those positions in recent chapters on a possible change Bank's money market opera- years, is still there. and informally as a guide to these operations.

> This would allow a monetary base to evolve very gradually from the present requirement that Clearing Banks should hold 11 per cent of eligible liabilities on deposit within the Bank of England-a requirement to be extended to other banks. Energies could then turn to the far more important subject of the utter incredibility of the Government's anti-inflation comlong-term stock with redemp

Solving the problems of our prison service

nessing in the last decade a public institution in perpetual crisis—a system that has been troubled by concerted dis-obedience and violence, often inspired by the techniques of protest adopted by other groups in society.

The considerable publicity that the activities of a handful of difficult prisoners attract has among prison staff leading to growing industrial action. The complete breakdown was averted only temporarily by the setting up in November 1978 of Committee of Inquiry into the United Kingdom Prison Services which reported in October

At the root of most of the troubles has been the size of the prison population that has grown unmatched by the available accommodation in outprescribed range. Of course, dated penal establishments, there would sometimes be an Last week the daily average all-time high of 44,800 (five years ago Mr. Roy Jenkins, when Home Secretary, declared that 42,000 was the system's breaking point).

While overcrowding contributes to the problems of control and security, it has an even more profound effect on the myriad of practical problems facing the prison adminis-tration, which no amount of ngenuity will turn away.

Victorian prison cells which

INFORMED OBSERVERS of the were designed for both sleeping population prisoners face a loss prison system have been wit- and work make ample single of identity. The prison service accommodation.

> Shared by three prisoners they are grossly overcrowded and squalid; the presence of three chamber-pots, filled overnight awaiting the nauseous process of slopping-out when prisoners are unlocked in the morning, makes the situation indefensible

The provision of water closets been matched by indiscipline is not ungenerous, but the allowing problem is in prisoners access to them during the hours that they are locked up in the interests of control and security.

The expensive solutions to this problem have been produced at Albany in the Isle of Wight (with its system of electronic unlocking of one cell at a time) and in the new Holloway prison for women (where toilets are provided in every cell). Those exceptions apart, there is no general solution in sight which even a lavish public expenditure could provide.
Overcrowding affects all prison

services. Water supply, drainage, cooking facilities, workshop space, time within the day to allow those activities that are not only desirable but necessary (such as education, recreation and group psychotherapy) all prove inadequate. As the population inexorably increases, so the staff response is made more difficult and their morale is sapped to the point of rebel-

Above all in this press of

is unable even to give the individual prisoner a modicum of London), Walton (Liverpool), attention that might assist in Strangeways (Manchester), any kind of hopeful rehabilita- Armley Road

The marked in the case of life development of our prison sentence prisoners whose system in the 1840s. With their numbers have increased in 20 lofty halls, with cells opening

(Leeds), and Winson Green (Birmingham) effect is particularly were all built in that rash of

## THE WEEK IN THE COURTS

BY JUSTINIAN

prison for the first and only unconscious purpose of reducing time in their lives.

They depend even more on senior staff for support in the painful process of adjusting to the indeterminacy of their sentences and in the emotional climaxes that attend their recurrent hopes and disappoint- prison. ments about release.

For them and other prisoners serving determinate sentences there has been undoubted there benefit from parole, introduced in 1967. However, parole has done little more than hold back the tide of the rising prison population. If a large number of prisoners

have earned earlier release from prison, the total impact has not been enough to combat over-

their occupants to insignificance. Modern prison building attempts individual's self-esteem, but it cannot remove the inevitable of imprisonment in diminishing those admitted into

The monotony of the smallscale pattern of existence, the restrictions on mobility and onthe choice of activities, and the lack of opportunities for accepting expressions of tenderness in . a rough masculine society are damaging to ordered human and social relationships, at least once the initial perhaps salutary, impact of such a jolt to ordinary habits have worn

Separation from wives and at Bournemouth outlines the

much more difficult. The most serious disadvantage of a prison system is that to live in any its standards and attitudes. Identification with a criminal

society. and at a cost that is enormous. Any satisfaction that society may, not unnaturally, feel at imprisoning an offender has to be set against its true cost in suffering to the offender and £5,000 a year. Society's immediate task is to

limit the defeating conse-quences, by keeping offenders out of prison wherever possible. by making prison itself more meaningful for the few that have to go there and, consistent with public safety, release prisoners as early as possible. All these features of our prison system have been known tral Council's meeting on Friday three

Victorian prisons form the families disrupts the basic Government's policies to be core of our penal institutions.

Pentonville and Wandsworth (in resettlement on discharge that recess.

Most significant is Mr. Whitelaw's declaration of a system is that to live in any more selective sentencing community is to absorb and ape policy from the courts. Prisons are not to be cluttered up with trivial and inadequate offencommunity means a rejection of ders. The drunks, the fine dethe standards of a normal faulters and the mentally abnormal are prime candidates Yet we subject increasing for treatment other than incarnumbers of offenders to all this, ceration in a prison cell. But their removal from imprisonment will make only a dent into the overcrowding problem.

Mr. Whitelaw said prison should be reserved for those who really need to be contained. 1.500, a large proportion of whom are domestic killers, in prison for the first and only reducing both the number of people who go inside and the length of time that others are

currently being sent inside.

The key to Mr. Whitelaw's proposals lies in the degree of co-operation he can elicit from the judges. He said that changes would be needed in sentencing policy to reduce the prison population. That can only mean a willing partnership to successive Home Secretaries. between the prison administra-But the present incumbent is tion and the judiciary. Courts the first to grasp the nettle of will be asked to take account a major reorganisation of of and act upon prison notices prisons, in which the problem that declare that there is "no overcrowding is acknow- room at the inn." Much shorter ledged to be the most pressing. sentences will have to be Mr. William Whitelaw's speech accepted by the judges and the to the Conservative Party Cen-public for all but the two or thousand dangernus offenders.

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# Doncaster draw still a worry

THE ANOMALY of the draw interbank rather than at Doncaster, where low num-easury Bill rate as in the past, bers had virtually been the Of course, all short-term rates kiss of death to horses drawn

> However, now the position has been completely reversed. and everyone is desperate for a low number.

## RACING

BY DARE WIGAN

In an effort to compensate for the massive and often overwhelming advantage of those drawn on the stands side (high the Doncaster numbers). executive decided over the close season "to nurture specially" the ground on the

owners, trainers, jockeys and punters left the season's first Flat meeting a good deal confused and, in some cases, Backers, in particular, have good reason to feel aggrieved. Every newspaper in the country, and the ITV racing team, reiterated the value of low numbers. There was no prior

that resulted from the well-

The new significance of the draw undoubtedly left ante-post backers of such wellfancied Lincoln hopes

announcement from the race-

course concerning the nurtured

ground so punters had every

reason to believe the situation

was unchanged.

So successful was their opera- Smartset, Silley's Knight and tion that there is no doubt Black Minstrel ruefully mulling that nothing was solved. All over their vouchers. However, one man who received a intentioned "overkill" was that deserved break when the draw came was Bill Wightman.

The Upham trainer, responsible for the Lincoln runner-up for three consecutive years from 1973, and whose Air Trooper vas balloted out two years ago found that his King's Ride had been drawn No. 2. Under a strong finish from Geoff Baxter the lightly weighted four-year old won the £12,000 first prize

## LEICESTER

2.15-Trish Fondu 2.45—The Old Feller 3.15-Ringgitt\*\*\*

3.45-Credit Centre 4.15-Baron Blakeney\*\*

4.45-Lindy Bay\*

5.15—Hirsuite

lines. 4.45-5.15 Ser. 6.00 Y Dydd. 6.30-7.00 Report Walss. 8.30-9.00 Y

SCOTTISH 1.20 pm News Headlines and Road and Weather Report. 2.00 Money-Go-Round. 2.30 Monday Matines: "Too Many Thieves." starring Peter Falk and Britt Ekland. 5.15 Teatime Tales. 5.20 Crossroads. 6.00 Scotland Today. 6.45 Crimedesk. 10.30 Conference Report. 11.30 Scotsport Special. 12.30 am Lite Cell.

## SOUTHERN

Surring Pater Finch. 5.15 Dick Tracy Cartoon. 5.20 Crossroads. 6.00 Day by Day. 10.30 Southern News Extra. 10.35 Music in Camera. 11.20 Barney Miller. 11.50 Inside Business.

TYNE TEES 9.20 am The Good Word followed by North East News Headlines. 1.20 pm North East News and Lookaround. 2.30 Monday Matunee: "Quest for Love" starring Joan Collins and Tom Bell. 5.15 Mork and Mindly. 6.00 North East News Headlines. 6.02 Crostroads. 6.25 Northern Life. 10.30 Northern Report. 11.00 North East News Headlines. 11.05 Monday Movie: "Demolition." 12.30 am Epilogue.

51a/189 Baker and neumone Baddeley.
4.13 Ulster News Headlines. 5.15
Certoon Time. 5.20 Crossroads. 6.00
Good Evening Ulster. 10.29 Ulster
weather. 10.30 No Easy Answer. 11.00
The Odd Couple. 11.30 Gardening
Today. 11.55 Bedtime.

WESTWARD 1.20 pm Westward News Headlines.
2.00 Money-Go-Round. 12.30 The Monday Metines: "Holiday Camp" starring
Flora Robson and Dennis Price. 4.12
Gus Honeybun's Birthdays. 5.15
University Challenge. 6.00 Westward
Diary. 10.32 Westward Late News.
10.36 The Pardoe Programme. 71.05
Eith for Life. 11.10 Environment. Diary. 10.32 Westward Late News. 10.35 The Pardoe Programme. 11.05 Faith for Life. 11.10 Fantasy Island. 12.05 am West Country weather and

programme news. 1.00 The World at One. 1.40 The Archers. 1.55 Shipping larecast. 2.00 News. 2.02 Woman's Hour. 3.00 News. 3.02 Listen with Mother. 3.15 Arternoon Theatre (5). 4.45 Short Story. 5.00 PM: news magazine. 5.50 Shipping forecast. 5.55 Weather; programme news. 6.00 News. 6.30 Frank Muir Goes Into . . . English. (5). 7.00 News. 7.05 The Archers. 7.20 Science Now. 7.45 The Monday Play; "The Shadow of a Gunman" by Sean O'Casey (\$). 9.15 Pennine Portraits. 9.30 Keloidoscope. 9.58 Weather. 10.00 The World Tonight. 10.30 The News Quiz (\$). 11.00 A Book at Beditme (\$). 11.15 The Financial World Tonight. 11.30 Today in Parliament, 12.00 News.

5.00 am As Radio 2 6.30 Rush Hour.
10.03 The Robbie Vincent Telephone
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3.03 ideal Home Showcase. 4.30
London News Deak. 5.35 Look. Stop.
Listen. 7.03 Black Londoners. 8.00
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ALDWYCH. S. CC. 836 8404. Into 836 5332. ROYAL SHAKESPEARE COMPANY. THE GREEKS had performance. Ever 7.30. Frf 6.00. Sat complete trilogy. Ton't Pt 1 THE WAR sold out. Tomor Pt 2 THE MURDERS sold out. RSC also at The Warehouse and at Piccadilly Theatre. Postal booking now open for new London season. Personal booking opens Wed TWELFTH NIGHT. THE MERRY WIVES OF WINDSOR THE LIFE AND ADVENTURES OF NICHOLAS NICKLERY.

APOLLO THEATRE. CC. S. 01-437 2563. Group sales 375 6061. Evs. 8. Mat. Thur 3. Sat. 3.30 and 8.30 TIMOTHY WEST as BEECHAM by Carri Brahms and Nod Sherrin Directed by Patrick Garland ARTS THEATRE. 01-836 2132. Tom Stop-pard's Dirty Linen. Mon.-Thurs. 8.30. Fri. 6. Sat. 7.00 & 9.15. NOW IN 175 FOURTH YEAR. Lowest-priced best Seals In London. Plus 15p temp-member. Special terms for parties.

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CAMERIDGE. 01-836 5056. Credit cards accepted. 01-836 7040. Mon. to Fri. 8.08. Taurs. 3.00. Sat. 5.00 & 8.30. Trib. HIT BROADWAY MUSICAL. VOTED BEST MUSICAL OF THE YEAR CHICAGD ELIZABETH SEAL. JENNY LOGAN. COLIN BENNETT. DON FELLOWS. HOPE JACKMAN. G. LYONS. Reduced prices for parties. 379 6061. 836 6056. Student Nurses. OAPs standby 51.50. COMEDY THEATRE. CC. 930 2578. Mon.-Sat. 9.00, Mat. Fri. and Sat. 6.30. THE ROCKY HORROR SHOW. Group Sales Box Office 01-379 6061.

CRITERION. 930 3218. CC. Boolings 379 6565. Group bkgs. 836 3962. Fegs. 3.00. Sats. 8-30 and 8.50. Thurs. Mat. 3.00. PRICES MON. THUR. 52. 53. £4. NEL SIMON'S COMEDY LAST OF THE RED HOT LOYERS. DUCHESS TH. S. CC. 01-836 8243. Red price Prov 15 Apr. Opens 16 Apr. MARIA AITKEN. MICHAEL JAYSTON In Nool Coward's PRIVATE LIVES.

DUKE OP YORKS. CC. 836 5122. GLENDA JACKSON ROSE, A new play by Andrew Davies. Eygs. 8.00. Mats. Wed. 3.00. Sats. 5.00. FORTUNE S. CC. 01-836 2238.
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cast includes JAMES AUBREY and
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Wed. 3.00. Sat. 5.00 and 8.15. Beryl
Reid. Barry Foster. Peter Bowles, lan
Waters in a new play by Peter Nichols
BORNE IN THE GARDENS, Directed by
Clifford Williams.

GREENWICH THEATRE S. CC. 858 7785. Evenings 8.00, Mats. Sat. 2.30. PRIVATE LIVES by NOEL COWARD. MARIA AITKEN, MICHAEL JAYSTON.

HAYMARKET THEATRE C. 01-930 9832. Eys. 8.00. Mai. Wed. 2.30 531. 4.30 and 8 00. DOROTHY TUTIN. DONALD PLEASANCE REPLECTIONS. A newlofsy by John Pescock. HER MAJESTY'S THEATRE. 930 6606 Opens Tonight at 7,000. Keith Michell Julia McKerzie. Mark Wynter. Ann Beach in the Award Winning Broadway Musica ON THE 20th CENTURY. Evgs. 8.0 Matiness Weds. 1. Sats. 4.

31 Mar. at 7.

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LYRIC STUDIOS Even. 8. Sats.

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Thur Fri 10.15. Sat 10.45.

THEATRES

NATIONAL THEATRE '5' 925 2252. OLIVYER (OPEN stage): Ton't, Tomor 7.30 OTHELLO BY Shakespeare, LYTTELTON (proscenum stage): Ton't Tomor 7.45 DEATH OF A SALESMAN by

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POSITIVAL LAST WEEK 1 1825 TO 245 D. DU.

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ACROSS

1 A bit of bread and fish decaying . . . (9) and fundamental ingredient I put in fish (5) 9 Accumulate a crowd (5) Type of army saving (9)

11 Offspring giving musical accompaniment around the finish (10) 12 Enclose stamp (4)
14 Instrument used to score or partially inscribe result (7) Spear I'd placed in river (7) 17 Sign of danger used by those on the left (3, 4)

19 Beats beat in sailors reel 20 Fortune left in confusion (4) 22 Chief wag that commands a suit (6-4) 25 One who arranges for wind- 19

instrument is to hesitate (9) 26 Subject contained in article to me (5) 27 Response from the Valkyries 23 Gloomy doctor gets attention 28 Fast driver disturbs deer 24 Stake used in construction of

steps (9)

The solution to last Saturday's Overture (5). 9.00 News. 7.05 Mews: 9.05 Member. 7.00 News. 8.05 Member. 7.00 News. 8.05 Member. 7.00 News. 9.05 Member. 7.00 News. 7.05 Member. 7.00 News. 8.05 Member. 7.00 News. 9.05 Member. 7.00 News. 9.05 Member. 7.00 News. 9.05 Member. 9.05 M 2 Not certain of casting us with names of winners next

11.00 Film 80. 11.30 Family History.

Scotland-11,00-11,20 am For Schools 12,40-12,45 pm The Scot-

Child Stealer starring Beau Bridges,

11.55 Weather/Regional News.
All Regions as BBC1 except as BBC Cymru/Wales-1.45-2.00

1.45 How Do You Do? 2.01 For Schools, Colleges. 3.13 Songs of om Pili Pala. 5.55-6.20 Wales To-day. 6.45-7.15 Heddiw. 11.55 News Praise, 3.53 Regional News for England (except London), 3.55 and Weather for Wales.

Weather for Scotland. Northern Ireland - 3.53-3.55 om Northern Ireland News, 5.55 6.20 Scene Around Six. 11.55 News and Weather for Northern 5.55 Nationwide (London and

3 Wager about question over

4 In team right for a prisoner

5 Bitterness over head in growth on oak (43) 6 Be a Frenchman giving con-

7 Cover in the south-east is to

8 Just one wearing vest? (9)

13 Died without alcohol, being

14 Fight over reserve collector

16 Additional item on green for

18 Guide-leader and girls in

demonstrative personality

making rice to eat initially

of memories (5-4)

dance and game (10)

structive support (4)

lapse (5)

dejected (10)

spectacles (7)

(5)

Exclusive social

21 Put up regal drink (5)

elephant enclosure (4)

the cutting of taxes in

4.20 Deputy Dawg. 4.25 Jackanory. 4.40 Heyry, It's the King. 5.00 John Craven's Newsrish News. 5.55-6.20 Reporting Scotland. 11.55 News and 5.10 Blue Peter. 5.35

6.45 A Question of Sport.

7.15 Blake's Seven.

8.10 Panorama investigates (Leeds, Manchester, Newcastle);

Addisonder Today (Birmingham); Midlands Today (Birmingham); Points West (Bristol); South To-9.00 News. day (Southampton); Spotlight 9.25 The Monday Film: "The South West (Plymouth).

BBC 2 6.40-7.55 am Open University. 11.00 Play School. 2.15 pm Let's Go. 4.50 Open University

7.20 Mid-Evening News including sub-titles.
7.30 Rock goes to college. 8.15 Marti Caine. 9.00 Yes Minister.

10.20 Russian - Language and People. 10.45 Newsnight. 11.30 Arena.

12.05 am Closedown: Reading.

LONDON 9.30 am Schools Programmes. 12.00 We'll Tell You a Story. 12.10 pm Rainbow. 12.30 Num-bers at Work. 1.00 News, plus bers at Work. 1.00 News, plus FT Index. 1.20 Thames News. FT Index. 1.20 Thames riews. 1.30 About Britain. 2.00 Monday Matinee: "Fire Down Below." 4.15 Clapperboard. 4.45 Enid Blyton's Famous Five. 5.15

5 45 News 6.00 Thames News.

9.00 Fox.

6.35 Crossroads. 7.00 The Kenny Everett Video 7.30 Coronation Street. 8.00 George and Mildred. 8.30 World in Action.

10.30 Monday Film: "There's a Girl in My Soup" starring Peter Sellers and Goldie 12.15 am Close: Personal choice

with Ray Smith.
All IBA Regions as London except at the following times: ANGLIA

1053kHz/285m 1089kHz/275m

693kHz/433m

APUFLIA

1.25 pm Anglia News. 2.00 MoneyGo-Round. 12.30 Monday Film Matinee: pm Trehesiau. 1.20 Penawau Newyd.

The Sun Never Sets." staring dion Y Dydd. 1.25 Report Wales Head-

Radio Wavelengths BBC Radio London: 1485kHz, 206m & 94.9vht 3 200kHz/1500m & 92.95vht 909kHz/330m 4 1215kHz/247m & 88-91vhf stereo 4 8 90-92.5vhf stereo 1151kHz, 261m & 97.3vh

RADIO 1 

RADIO 2 RADIO 2
5.00 am News Summary. 5.03 Ray Moore (S). 7.32 Tarry Wogan (S) inscluding 8.27 Recing Bulletin, 8.45 Pause for Thought, 9.03 Favourita Singles. 10.03 Jimmy Young (S). 12.03 pm David Hamilton (S). 2.03 Ed Stewert's Request Show (S). 4.03 Much More Music (S). 5.00 News. 5.05 Waggonars Walk. 5.20 Much More Music (S). 8.03 John Dunn (S). 8.02 The Organist Entertains (S). 8.30 Folk 80 (S). 9.02 Humphrey Lyttelton with the Best of Jazz on records (S). 9.55 Sports Desk. 10.02 The Monday Movie Quiz. 10.30 Star Sound. 11.02 Brian Matthew with Round Midnight.

11.30 Beethovan and Bartok Concert, (S) including 12.10-12.15 pm Interval Reading. 1.00 News. 1.05 BBC Lunchume Concert (S). 2.09 Music for Organ (S). 2.35 Maintee Musicale (S). 3.35 New Records (S). 4.55 News. 5.00 Maintly for Pleasure (S) (‡ and mone only from 8.20). 7.00 Berlin Philharmonic Orchestra Concert, part 1; Bach (S). 7.25 The Vision of Pleasure Ploughman (S). 7.55 Berlin Philharmonic Orchestra, part 2; Besthowan (S). 8.45 The White-Mained the Ploughman (S). 7.55 Berlin Philharmonic Orchastra, part 2: Besthoven (S): 8.45 The White-Haired Novelist: portrait of J. G. Farrell, 9.30 Albentiz: Iberta piano recital, pert 1 (S). 10.15 The Letter by Robert Forrest (reading). 10.30 Albentiz: Iberte, part 2. 11.25 Jazz in Britain: EBU Concert from Moars. 11.55-12.00 News. VHF only-6.00-7.00 am and 6.20-7.00 pm Open University.

11.30 Beethovan and Bartok Concert

Waggoners Walk. 5.20 Much More Music (S). 6.03 John Dunn (S). 8.02
The Organist Entertains (S). 8.20
Folk 80 (S). 9.02 Humphrey Lyttation with the Best of Jazz on records (S). 9.55 Sports Desk. 10.02 The Monday Movie Quiz. 10.30 Star Sound. 11,02
Brian Matthew with Round Midnight, including 12.00 News. 2.02-5.00 am You and the Night and the Music (S). RADIO 3

10.55 am Weather. 7.00 News. 7.05
Overture (S). 8.00 News. 8.05 Morning Concert (S). 9.00 News. 10.05 Monay Boz. 10.30 Dally Service. 10.45 Story Time. Sing Concert (S). 9.00 News. 9.05
This Week's Composer: Saint-Saens (S). 10.00 Wind and Piano Quintats (S). 10.50 Delme String Quartet (S). of Britain 1980 (S). 12.55 Weather: 10.00 News. 12.27 Brain (S). 10.50 Delme String Quartet (S). of Britain 1980 (S). 12.55 Weather: 10.50 News. 10.50 Monay Dot. 10.50 Delme String Quartet (S). 10.50 Delme S

6.00 sm AM with Bob Homess and Douglas Cameron. 10.00 Brian Hayes. 12.00 LBC Reports. 8.00 pm After Eight Special: Financial Editor Douglas Moffitt presents a pre-Budget Special. 9.00 Nighaline. 12.00 LBC Reports Midnight. 1.00 am Night Extra—Tara Jefferies. 5.00 Morning Music.

Douglas Fairbanks Jr and Basil Rath-bons. 5.15 University Challenge. 6.00 About Anglis. 10.30 Cross Question. 11.00 Vegas. 12.00 A Big Country. 12.30 an Reflection. ATV

BORDER BORDER

1.20 pm Border News. 2.00 MoneyGo-Round. 2.30 Monday Matinee:
"Sands of the Desert," starring Drako.
5.15 University Challenge. 5.00 Lookaround Monday. 6.15 Collecting with
Curtis. 10.30 Conference Report:
Scottish Liberal Party conference at
Rothesay. 11.30 Scotsport Special—
Boring. 12.30 am Border News Summuary.

1.20 pm Channel Lunchtime News, What's On Where and Weather. 2.00 Money-Go-Round. 12.30 The Monday Matines: "Holiday Camp." 5.15 University Challenge. 6.00 Channel News. 6.10 Spiderman. 10.28 Channel Late News. 10.36 The Pardoe Programme. 11.10 Fantasy Island. 12.00 News and Weather in French.

GRAMPIAN

9.25 am First Thing. 1.20 pm North News. 2.00 Money-Go-Round. 2.30 Monday Matineo: "Bachelor of Hearts." 5.15 Wild Wild World of Animals. 8.00 North Tonight and Area Weather Forecast. 10.30 Liberal Con-ference Report. 11.30 Scotsport Special —Boxing. 12.30 Reflections. 12.35 am North Headlines.

1.20 pm Granada Reports. 2.00
Money-Go-Round. 2.30 Monday Matnee: "Lost." 5.10 This is Your Right.
Crossroads. 6.00 Granada Reports.
6.30 Selwyn. 10.30 Reports Politics.
11.00 Mystery and Imagination: The
Mind of Mr. Scemes."

HTV

ULSTER 1.20 pm Lunchtme. 2.00 Money-Go-Round. 12.30 Monday Metinec: "Jet Storm" sterring Richard Attenborough, Stanley Baker and Hermione Baddeley.

YORKSHIRE

1.20 pm ATV Newsdesk. 2.00 Money-Go-Round. 2.45 Rendezvous with Romance: "Vacation from Marriage." 5.15 The Television Programme. 6.00 ATV Today. 10.30 Left. Right and Contra. 11.00 ATV Newsdesk. 11.05 Barney Miller. 11.35 Divorce and After. 12.05 am Something Different.

CHANNEL

GRANADA

1.20 pm Report West Headlines. 2.00 Here Today. 12.30 The Monday Maunee: "The History of Mr. Polly. 5.15 Dick Tracy. 5.20 Crossroads. 6.00 Report West. 10.35 Food. Wine and Report West. 10.35 Food, vene .... Friends. 11.05 Scap. 11.35 Twist in the Tale.

HTV CYMRU/WALES-As HTV West/

1.20 pm Celendar News. 12.30 Mon ay Matinee: "Jet Storm" starring 1.20 pm Celendar News... T2.30 Mon-day Matines: "Jet Storm" starring Richard Attenborough, Stanley Baker, D-ane Cliento and Bernard Braden, 4.10 Cartoon Time. 5.15 University Challenge. 6.00 Calendar /Emiley Mooi and Belmont editions). 10.30 Country Calendar. 11.00 Police Story.

BBC Radio London

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**London Broadcasting** 

## For Whom the Bell Chimes

by B. A. YOUNG

22 we saw his first three is dead in a bed that, like every-first three produced thing else in the flat (designed , that is-Graham Greene taken an increasingly ... tells us, was "almost com-pletely farce," something most figure was treated with fine disrespect. Now we have a farce from a transvestite male. with a kind of neo-Molieresq: quality, in which there is only of farces. This one simply congeneral reference to current life tinues on an increasingly knockand the characters are: It much in farce. Some of the stories in duo — the con-man and the May We Borrow Your Husband are farcical, and first appeared a life of romance.

and Judy show, but the fertile situation which starts it is capable of enough manipulation It's preceded by a curtain-to keep it very funny for a little raiser. Yes and No, whose sub-

Felicity Harwich's fiance (he in a dream. A director is re-has no name of his own) con-hearsing a young actor in a trives to exchange personalities part where the only lines are with a con-man who has come either "Yes" or "No." It fills

by Terry Parsons), folds up into raken an increasingly the wall. Complications are rolors line in the theatre, added by Colonel Fenwick, an ... a first act of Carving a Starue, inspector for the charity the con-man purports to represent, by a quarrelsome Scottish neighof us overlooked. In The Return bour, by a doltish police of A. J. Ruffles that quasi-heroic sergeant and a police-inspector recently converted into a female No need to describe the plots

about level until it is concluded, more than puppets amployed not very convincingly, by sendpurely to precipitate situations. ing off all but two of the characters for the characters and leaving the remaining

in Punch.

The Leicester piece is a ver tant, but it's good fun, and it's lightweight farce but none the brightly played under Robin worse for that. It has little Midgley's direction. The author came and watched some rehearsals, so we may know the result to be authentic.

ect was revealed to Mr. Greene soliciting for charity, and de-parts leaving the con-man in only just. Like the longer play, charge of his flat, where Felicity it is most ably acted.

Belgrade, Coventry

# Battery

by MICHAEL COVENEY

Andrew Davies, who has a (Pat Rossiter) late in the game current West End success star- Well, yes and no. It's like sayring Gienca Jackson, has now produced a strange and uneven Coventry countryside. An old to be flushing some sort of railway station, converted to a guilt from his system by loadconage, has been taken over by ing the dice. Admittedly, the a feminist lesbian trio, who are relationship of Alison and Julia bolting the door against the (Anne-Louise Wakefield) comes local rapist. Odd things always across as convincingly sexual. happen in old railway stations. Women kissing will always you remember Ghost Train elicit gasps of surprise, but the ard one of John Osborne's more friendship, dating from univer-recent and ludicrous epics. What sity days and initiated on a with sapphic troilism, a rejected student-pupil basis, is success-busband, a lecherous policeman fully plotted. and a cuddly yokel who kills pigs, nothing untouched by oddness could happen.

with alibis and excuses thrown distraught, steering well clear out like sparks from an unof the furniture before spitting

Ed Thomason's production starts off as it means to go on, with blasts of the Fauré Rewith blasts of the Faure Re-quiem and farmyard squeals nothing is demanded of the giving way to Carole Hayman cast in the way of acting, and holding her husband (Terence Longdon) at gunpoint. "All men a series of cheap, rather are monsters" declares Alison mechanically engineered, thrills.

ing all peasants are crude.
I would not labour the point, except that Mr. Davies seems

It is odd, though, that a progressive message should be dressed up in such tawdry Structurally, the play is a bit of a cheat, hopping as it does for the first half-hour between pairs of characters who do not seem to be related. And, as the evening drones on, there are ask for his head back? No. interrogation scenes it is Miss Hayman, muddy and blood and collapsing. escapes a similar fate and there is a subversively romantic kick the evening survives merely as

## GLC arts support for 1980/81 keeps pace with inflation

The Greater London Council smaller cultural bodies comis increasing its budget for pared with £650,000 last year, grants to the arts during 1980 an increase of 20 per cent. to 1981. Money to cultural of the arts committee, said: "In cent over 1979 to 1980.

The four major performing arts organisations supported by the GLC—the English National Opera, the London Festival Ballet, the National Theatre and the London Orchestral Concerts House appeal will also receive £250,000 this year compared with £220.00 for 1979 to 1980. The arts budget also includes and pride but an important not entirely unexpected. Since the tragic denouement is a fore-f780,000 for grants to numerous invisible export."

Mr. Freddie Wever, chairman

bodies will total £3,700,000, an the present financial climate of increase of £530,000 or 16.7 per severe restraint and spending curbs we have done our best to maintain our support for the arts. Last year we increased our arts budget by a substantial 34 per cent and this commitment

has been maintained.
"We believe that the arts Board—have their grants have a vital role, not only in increased by an average of 16.2 the quality of life in the nation's per cent to keep pace with capital, but in our ever more inflation. The Royal Opera essential tourist trade. The essential tourist trade. The international standing of our theatres and concert halls is not only a matter of prestige



Phil Bowen, Malcolm Rennie, Roy Macready, Carolyn Moody, Derek Smith and Alan Starkey

Stuttgart

# Kagel's Creation by DOMINIC GILL

theatre spectacle, Die Erschöpfung der Welt, means "The Exhaustion of the World." But more to the point is the twist to, and the pun on, the word Schöpfung ("Creation"): for Kagel's Creation is a negative force, and his Erschöpfung a Schöpfung taken — as many German er-words take their root meaning, ertrinken, erschlagen. erstarren, erlöschen, erfrierento its last, ultimate extreme. Die Erschöpjung is not a hymn to the life-force, but a dark Elegy for God and Man. The curtain rises on a smoking. devastated landscape, and the mutilated. mutated wo-man, male and female grotesquely combined, that drags its four legs painfully across the scene announces a bitter parody of

In the end God created the Heaven and the Earth. And the Earth was waste and desert; smog covered the Flood, and the spirit of God swam in the sewers. And God said: Let there be Light. But there was no Light, and God saw that the Darkness was good, and did not divide it from the Light. And God called the Darkness. Day. The Deity of Die Erschöpfung

is a negative, Manichean figure: perhaps He enjoys the misery and evil of the world; perhaps He is powerless to stop it; perhaps, as Kagel remarks in his preface to the work: "He is just Whatever the precise theological circumstance, the composer's theme is explicit, a reverse-Miltonic canon repeated Dressage, a sad, serious joke insistently throughout the text. for a trio of wooden percusand echoed visually in every scene: the impossibility, not to speak of the evident absurdity, of any attempt to justify the ways of God to man. The burden is intentionally and powerfully blasphemous - there is little chance of Die Erschöpfung being produced in Oslo or Dub-lin; beside its libretto the script of Monty Python's Life of Brian reads as irreverently as Alison Uttley. But blasphemy, Kagel admits. "is an entirely alien concept to me, since I am not a Believer": and he suggests on the contrary that for the Believer his message must be doubly important, since "without scepticism there can be no real religious communication at

It seems, on the face of it, a surprisingly dark and serious theme for the arch-humourist,

Establishment mores, con-cerned like John Cage (with whom he has indirect but Establishment important affinities, as well as important differences) to free from its academic bonds "the acoustic process which is the essence of music," and like Marcel Duchamp to mock the pretentions and over-seriousness of the cultural elite. Religion, like high art, was an inevitable target

Kagel has always delighted in searching for "correspon-dences" between apparently irreconcilable poles: between "humour" and "seriousness," "pure theatre" and "pure music," earth and air, hate and love, music and noise. In his Ex-position for athletes, singers and instruments given in Paris two years ago, he noted that "there is only the lightest displacement of accent between the activities of the civilian sportsman and the soldier in training. In Die Erschöpfung there are many such secondary themes and observations. Some are deeply serious: the pity and the horror, for example, of man's ruthless contamination, physical, cultural and spiritual, of his world.

But another theme, which in its way underpins them all, an is perhaps the one which shows Kagel to be quintessentially more Jewish than German, is also fundamental: the redeeming notion that what is deeply sad can also be extremely funny. Kagel's note on his own the years he was composing Die Erschöpfung, applies equally well to the larger theatre-piece substituting only the word "God" for "music:" "Correspondences that of the circus reveal themall expressions of amusement, is a good example of the permanent and reciprocal dressage of - training - of composers. organisers, interpreters, and not least, the public itself."

Just as Ex-position was dedi-cated to the "impossible marriage between serious and popular music," so Die Erschöpfung illustrates, as Kagel's pantheon, the impossible mar-riage between God and Man. It arch-Dadaist Kagel to choose to and it ends in tragedy. But investigate. But the choice is along the way—even though

irrepressible iconoclast of spiky tenderness. God may be Establishment mores. con- a sadist or a seartless gambler: but, more important, he is humourless. If there is any

> hard Kontarsky conducted. In- pal and very splendid effect of stead of a programme-booklet, the theatrical scene. two large volumes running in all to nearly 350 pages (one of essays and notes, the other chiefly pictorial, both beautifully produced and on sale together at the remarkable price of only 98p) go to make up an elaborate commentary and exegesis which is an essential complement to the work.

Too essential perhaps: without the books-and their commentaries, scene-titles, explanaword for it is "conceptual collage "-whose nearest Eng- with sardine-cans for scales, a lish equivalent is perhaps the word-juggling of Sitwell for "music:" "Correspondences rather than the many-layered legs, between the world of music and punning of Joyce. There is A selves quite often. 'Serious juxtaposes Tut Weh!; and there music' above all, with its is much play with combinations avoidance, finement atristé, of —Lug und Trug, Blut und Brot, juxtaposes Tut Weh!; and there Pick und dunn, Weit und breit. Hangen und bangen. Sequences words develop by free and by rhyming association: Mein Herr, Ein Herr, Einer, Zwei, descends from the flies to chew Zwei Ei, Zweifel, Zweifel-Ei, up, then spit out, the broken Ohne. Zweifel-Söhne, Sonne, Zweifelsüchtig, Tüchtig. But only from the libretto could we learn that the scene of lamentation, a permutation of every conceivable form of the word

weinen (to cry), was entitled 'K(liagelieder.' In this complex web of word-

RUGBY UNION BY PETER ROBBINS

Literally translated, the title from the chamber-music theatre-wild and extravagant amuse—than sung; a small ensemble of Maurizio Kagel's new music—piece Sur Scène of 1959 on-ment to be had; much irony to of five players, augmented by a theatre spectacle, Die Erschöp—wards. Kagel has been an be pointed; much surrers and large "home-made" percussion battery and at certain keypoints by pre-recorded tape, do not introduce or propose new material so much as underline redemption to be found on or punctuate the text. Someearth, it is not through God, but times there are hints of re-by the spring of human fantasy; current motifs: a little violin if there is any nourishment, it theme, for example, which is not manna from heaven, but appears with every mention of the food of sweet and bitter the word "flesh" or "nourishancy. ment "binds together the scene
It is Kagel's longest and most called "Appetite and Faith." ambitious stage work to date But the musical role is frag-- composed from 1974-78, commentary: sudden, strident missioned by the Stuttgarter snatches of melody: dark, plain-Staatstheater, and presented in tive ostinati. And even the seven performances this month spoken words, powerfully and last in co-production with delivered as they are, seem no Süddeutschen' Rundfunk. more than incidental decoration, The composer produced; Ber- pretty wallpaper, to the princi-

Visually, much of

Erschöpfung is stunning. Kagel does not, indeed, call the work an opera, but subtitles it "Scenic Husion." In one act and 11 scenes, lasting two hours with-out an interval, it is the sequence of tableaux, designed by the composer with Helmut Stürmer, and not the music. which grips the eye, not the ear. Kagel wastes no opportunity to indulge his taste for the outtions—and without a libretto rageous, the whinsical, the quickly to hand, Die Erschöpexotic—or for the visual gag. fung could be a colourful but But nothing is vulgarly or confusing mystery. The text is crudely managed: the scene in Kagel's own: part Biblical in the Garden of Eden, where reference, part pure Kagelian Adam (stark naked, wearing confection. Every line is a nothing but a wooden flute word-play-but the technique is Eve (wearing nothing but a cowpunning, rather a bell) meet and make music systematic fragmentation by together is neither kitschy nor phonemes, a phonetic word-play some times light and spark-strangely touching. In God's for a trio of wooden percus ling, sometimes heavy with Zoological Garden, music and sion instruments written during Wagnerian alliteration. Kagel's circus meet with abandon; a seal with cymbals for flippers, fish cow with bells for udders, a spider with whizzing springs for

> A large cast of six solo singers, six actors, two choirs for speaking and singing of 16 voices each, and a substantial Bewegungschor of extras, are all seemingly in ceaseless movement. In the final scene, as the huge and grotesque apparatus God's Mincing-Machine descends from the flies to chew arms, legs and heads of the waiting faithful, there is the first sustained and fully developed passage of music in the score: a mesh of soft, transparent sonorities, other-worldly beautiful. I wish there had been more. The nuance of the final syllable of the text. roared from music, the sung and instru-God's Loudspeaker high above mental music takes second the stage, was impossible to place. More words are spoken render into speech: Amen?!

Lyric Studio, Hammersmith

# Woyzeck

by MICHAEL COVENEY

a working class here was something to be. It was George Büchner, however, early in the working class tragic hero on the stage, and his fragmentary play of brief scenes and compressed masterpiece even allowing for the absorption of naturalism and expressionism into the theatrical bloodstream. Although the text veers between the two styles, I have never seen the central physical and psychological pic-ture of Woyzeck better portrayed than it is by Karl Johnson in Neil Johnston's production for the touring company, Foco

Woyzeck is a barber in the army. He is poor. He therefore submits to medical experiments in order to earn money for Marie and their child. He has been on a dief of peas for three months. Noises come at him from all directions. He begins to shake. He is, from the outset, in a state of delirium. But even in that state he has a refined fatalistic sense of what to expect. "When we get to heaven they'll put us to work on the thunder," he mutters to the Captain as he tentatively shaves him between military gestures from the chair. The performance also con-

an ironic Darwinian tract in reverse. Although we are deprived of the barbaric sideshow and the exhibinition of Woyzeck in front of the students, the animal imagery is given full rein and the macho posturings of the Drum Major -"a real man" sighs Marie before being swept off her feet -serve as counterpoint to the decline of Woyzeck through a few evolutionary stages, having his ears waggled and defending his right to pass water at will. There are weaknesses. Jill

John Lennon once thought, as Richards hits entirely the wrong indeed did John Osborne, that note of simpering confidentiality as Marie's friend; something should be done about the folk songs which are messy and not 19th century, who put the first Hessian; the tavern scene is unnecessarily cramped on Alberto Bali's otherwise serviceable touring framework of platenergy remains a slippery little forms and wooden frames; the ending is muddled-Woyzeck does not disappear into the pond but gives his hand, not very confidently, to the doctor. An all-purpose Hyde Park

character (Nigel Harris) out of Heathcote Williams via Ken Campbell, with an eye as authoritative as the Ancient Mariner's, conflates the barker and the showman (and, for good measure, the knife-supplying Jew). Gwyneth Strong is admirable as Marie, full of life and false hope. The text been prepared by Peter Hulton and plays for 90 minutes without interval.



St. John's, Smith Square

## **BBC** Singers

by PAUL DRIVER

The paradox of unaccompanied choral singing is that the better the performance—and on Thursday the BBC Singers under style clearly takes a lot of achieving. It was remarkable how five relatively unfamiliar twentieth-century English works by composers who don't have that much in common so easily fitted together. The gap between Bax and Sherlaw Johnson was comfortable bridged.

The Bax work, Mater ora filium (1921), proved quite a discovery: a powerful study in rich arabesques that ascend by measured stages to an immense, elaborate climax. Though setting a simple English nativity carol (with Latin refrains), Bax draws the singers technically and expressively to their ecstatic limits. But Herbert Howells's similarly elaborate, though plainer, slightly harsher Prudentius setting. Take hi mearth. for cherishing (1964)—a memorial for J. F. Kennedy—exposed the art of contrapuntal soaring as too readily rhetorical and cast

a shadow over the Bax.
With Vaughan Williams's
Mass in G minor of 1922 the problem of an objective, modally delectable, anachronizing English style presented announced that Jesus itself squarely. Despite its Superstar is entering its last occasionally trenchant anti- six months at the Palace phonies and the eloquent inter- Theatre, and will play its locking of its last three sections, 3.357th and final performance this music shows that it is on August 23,

possible for euphony itself to leave the listener thoroughly jaded. In his programme notes Richard Terry, who conducted Nicholas Cleobury gave con- the first performance, is sistently fine peroframnces—the reported to have found the Mass music tend to be consumed in anonymous splendour. Real, outstanding individuality in the development of modern music: "it is the work one has all along been music." vision of musical paralysis opened up. Supposing it had been the crucial work?

Certainly, Robert Sherlaw Johnson's bizattely mystical Resurrection of Feng-Huang (solo soprano, Sarah Leonard) was musicaly not too difficult to assimilate to a central choral tradition, for all that it may be inspired by Messiaen's Cinq Rechants. (It won vigorous applause from Herbert Howells himself, who-a spruce 88-had come to hear his piece.) In the context. Britten's Five as the simple product of genius. Who could ever forget or mistake, once heard, the silver melodious thread of "To Daffodils"; or the last line of "The Evening Primrose "-" It faints and withers and is gone "-set to a soft and rising arpeggio?

> 'Jesus Christ Superstar' to close in August

The Stigwood Group has

SOCCER BY TREVOR BAILEY

# Luton leave Second Division open

the Easter programme, but and claim it, largely because of the high standard of competence throughout the League. This helps to explain why West Ham, who could well

reach the FA Cup final by tended to be spasmodic with must be some doubts as to reach the FA Cup final by tended to be spasmodic with must be some doubts as to reach the Figure Allen solves in the First Division. the table Fulham, and Birmingham, who are superior to at who forms such a lively spearleast seven current first division sides, went down to the unfashionable, sparsely supported but extremely efficient trick

of the second division was supplied most of the moves, exemplified by the 2-2 draw of nearly all the pressure, and two Queen's Park Rangers and an inexperienced 19-year-old Luton Town at Shepherd's left-winger, had been brought Bush. Rangers, after a herrid on for White, who had proved so ineffective as a centre in their last six matches, pick-forward that it was hard to easy noning up nine points in the believe he had cost £175,000 process whereas Luton, who are earlier in the season. This short of reserve cover, were on switch allowed the purposeful

fully, and excitingly, open brought them only two points from a left-wing centre.

Eight more fences remain for out of the last 10.

Although the equalis

once again Goddard was in the with a makeshift team. right place at the right time. Although they were possibly average team spirit will have flattered by their 2-0 lead at played a vital part, because half-time, as their football had purely in terms of ability there tended to be spasmodic with must be some doubts as to moments of brilliance. Allen, selves in the First Division. head with Goddard, nearly ing, under David Pleat and have, scored twice, while his partner acquired considerable style, they might have completed his hat-

The second half belonged The uncertainty at the top entirely to the visitors, who well-placed contenders, goals. Both came after Pearson,

WITH ONLY two of the leading this occasion without two key Stein to attack the centre of It is less certain that all his could be all the control of the leading the Rangers' defence. He not team have that total commit-Saturday, the Second Division goalscorer and had been only forced errors, but also ment which is likely to be just promotion stakes remain delight experiencing a lean spell which scored with a copybook header as vital as skill, if not more so,

Although the equaliser by most of the competitors and it . Everything indicated a com. Hill, another whole-hearted is still impossible to pick the fortable victory for the home competitor, was the outcome of first three with any confidence, team. a view which was a mistake by the 'keeper, the Much clearly depends upon reinforced when Rangers took visitors more than deserved be Easter programme, but the lead in the second minute their point. They combined certainly this season no team has with a well taken goal by better, hit both the bar and the been able to take the champion-Goddard from a left-wing cross. post, and displayed considerable ship by the scruff of the neck They went further ahead when character to come from behind

If Luton do go up, above-Although they are still improvare probably not yet ready to join the elite and; sadly, it must be admitted that their home gates do not justify it.

his players were not good enough; yet individually they were superior to Luton and he certainly has the nucleus of a division. Chelsea, as they have selection, that of Blakeway First Division side. This is the points and the passion and over McGregor, in the front hardly surprising when it is the enthusiasm of youth, and row. Then there was the great remembered that he has spent one from Leicester, Luton or bonus that Cotton and Uttley more than £1im on the transfer QPR, but my heart cries out for were available and free from

in the final run-in This could team with two genuine poschers can afford the luxury of a left winger who appears to have no other duties, whether a strong and enthusiastic rearguard possess the tactical expertise to work as a user and whether Allen and Goddard can continue to produce goals-because, apart from set pieces, it was difficult

Although both QPR and Luton can gain promotion, the First Division itself must surely prefer to welcome back Birmingham. West Ham, Chelsea, Sunderland or Newcastle, because they all can guarantee the home support which makes After the match Tommy visiting them a viable financial proposition.

to see where else they will come

My own selections would be team. Birmingham, for my money the best balanced team in the shambles, but there was one key a representative from Tyneside injury. Neary maintained an same loyalty and closing of His final kick in injury time to get even finer.

The crowning Grand Slam glory has been by the logical selection beat the All Blacks. well binge on factors like of Billy Beaumont to captain whether the talented Currie can the Lions in South Africa this adapt more to the foibles of his summer. I wrote some while given Sandy Sanders, the less able colleagues, whether a ago on the anatomy of a successful club and it is now interesting to examine the of his hard work reaching a factors common to the two Grand Slam teams of 1957 and this last one.

It is said that one should not compare any two men who are not contemporaries. Rugby has paign. These days, of course, changed its laws dramatically, there are coaches, and while not to mention its attitudes Mike Davis properly takes much to coaching and preparation for credit, his predecessors also had the big matches. One factor a hand in this long awaited common to both the successful success. eras was the firmness of selection coupled with the quick example, was rivalled by his learning of mistakes.

This season England were extremely fortunate in having two warm-up games against Argentina and then New Zealand. These games showed both good and bad sides of the

The final trial was an utter

players, extráordinary level of perform- ranks that members of a family against Wales was remarkable ters have ance and these three, with demonstrate when the group is for its calmness and to all inofficials and supporters have ance and these three, with demonstrate when the group is enjoyed their week of Grand Beaumont, had of course been threatened by outsiders. Rugby

> was right and it must have previous chairman of selectors, quiet satisfaction to see some successful conclusion. The same stability was obtained in 1957 when the pack remained unchanged and only 17 players were used in the whole cam-

Beaumont's leadership. fellow Lancastrian of '57, Eric Evans. Evans was certainly trous experiment of playing more extrovert, but in each case the men who played under them respected them for what they been quite clear that the morale of this season's England side has been at an all-time high and one has seen a sense of belonging, dignity and pride in playing which has been fostered

in his day. The forwards have shown the

Slam euphoria crowned as it the core of the North team that is meant to be a team game and this year's men have given full So, the selection of the pack meaning to that word, on and off the field.

It was fairly easy to see the emergence of a good pack and once Colclough had replaced next consideration was how to make use of possession. Smith certainly had his traumas against Wales, but I believe the suppression of his own natural game and the evident increase in his personal courage were great factors in England's ultimate success. Jeeps's toughness had been

equally valuable in '57 but the real bonus to England this year was Horton's increased confidence at fly-half after the disas-Cusworth against New Zealand. Yes, there was fallibility at balfback, but both Smith and did rather than said. It has Horton made valuable contributions at crucial times and were an important hinge in the team.

The fullback position was also an area of doubt and although Hare terrified us on occasions when running across the field

tents and purposes won the Grand Slam for England. It was assumed, probably correctly because of public

evidence, that the team had limited attacking ability. They restricted themselves in attack so as to start winning and eliminating risks. It was odd that chance, that great collaborator. played its part in producing the most expansive game that England ever played at Murrayfield

The accident to Bond in the first international brought on Woodward, and Preston's subsequent injury meant that Dodge partnered Woodward, his &ch-mate. Woodward's personal contribution to the Calcutta Cup cannot be underestimated and it was good to see England being forced to counteract Sectland's daring running, rather than defensive kicking. In doing so they revealed a talent that had only been

The grand slam was and is the ultimate reward for the players' dedication and leadership of many people. The current players and their predecessors know only too well how by Beaumont as it was by Evans to the diagonal kicks, the fact fine the line is between failure remained that he kicked goals and success at international when they were most needed, level. Each year that line seems

suspected.

## **FINANCIAL TIMES**

Telegrams: Firantimo, London PSA Telex: 8954871, 883897 Telephone: 01-248 8900

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# The fear of competition

AS THE World economy slows chance that assembly will lead down, fear of Japanese competito manufacture. tion in Western Europe and North America is again emerging as one of the main threats to the free trading system. Especially disturbing is the spread of protectionist attitudes to industries which have tradi-Conally been strong supporters of free trade and indeed have depended on it. The motor industry is the outstanding example. In the U.S. the domestic manufacturers have laid off thousands of employees at a time when Japanese cars are continuing to pour into the country. So far the Carter Administration has rejected trade union proposals that imports should be restricted unless and until Japanese manufacturers build plants in the U.S., but demands for action are growing. In Europe there are already formal or informal curbs on Japanese cars in the U.K., France, Italy and Spain, With Japanese penetration rising in West Germany and other countries, pressure for controls at the EEC level is gaining

## Investment

The anxiety among European manufacturers is that the Japanese are investing in new capacity for which Western Europe will be one of the main outlets. Thus the Japanese may cream off what little growth there is in the European market, at a time when export opportunities for European manufacturers, in North manufacturers, in North America and the developing countries, are diminishing,

The logical response to these fears on the part of the Japanese is to invest in European manufacturing facilities, just as they have already done to some extent in TV sets. But the domestic industry seems to be no less hostile to the prospect of Japanese cars being manufactured within Europe. Fiat in Italy is doing its utmost to block an arrangement between Nissan and Alfa between Nissan and Alfa Romeo, while the French are helieved to take an extremely hostile view both of the BL-Honda licensing agreement and of the Nissan investment in Motor Iberica, a Spanish commercial vehicle company.

It is true that initially the only assembly, with engines and components im-

If the investments take the form of co-operative ventures with established manufacturers, risk of adding to over capacity will be reduced. More-over, links with Japan are a of giving the weaker European companies access to economies of scale which are volume producers, such as Ford, General Motors, Fiat, Renault and PSA Peugeot-Citroen. Perhaps the hig European companies would prefer their smaller rivals either to disappear or to become their own satellites. But it is in the interests of consumers that there should be strong com-

It is politically as well a economically necessary that Japan should be fully integrated with the rest of the industrial world, not treated as an alien culture to which normal trading rules do not apply. In the motor industry, Japan has much to contribute in know-how and production efficiency, as the lead-ing U.S. companies recognised when they decided to invest directly in Japanese car manufacturers. These companies are using their Japanese affiliates to supply them with vehicles and components for use in the U.S. and to some extent in Europe: Vauxhall, the General Motors subsidiary, will shortly start importing pick-up trucks into the UK from Isuzu, GM's Japanese affiliate. If these investments make sense, the same applies to Japanese investments in the reverse direction.

The danger is that opposition from domestic producers, allied to commercial caution, will make the Japanese even more reluctant to manufacture their vehicles in Europe. There is no doubt that to do so will involve a loss of efficiency, because it will disrupt their highly integrated supply and manufac-turing system in Japan. But the Japanese have to recognise that the next year or two could be decisive for their position in world markets. Their overseas policies have to be tempered by an awareness of palitical realities. This means not only Honda deal with BL involves restraining direct exports to prudent levels, but also investing in overseas manufacture ported from Japan. But the rather earlier than strictly com-Japanese have got to start mercial considerations would

# Blunt axe for Civil Service

LIRE A HYDRA with 700,000 extra cash will have to be found heads, the Civil Service proliferates even as it is being tion in manning. But this dismembered. Soon after the measure was not accompanied Conservatives came to power by a triumphant announcement the Prime Minister instructed that policy was now on target her Cabinet to prepare three for the 10 per cent manpower sets of contingency plans for reduction which Mrs. Thatcher cutting back central government had sought. bureaucracy and spending.

some civil servants have a day, when the Civil Service tendency to give primacy to the Department produced figures protection of their colleagues' which showed that, before the protection of their colleagues' which showed that, before the jobs, rather than of the standard of service offered to the public, in their responses to expenditure cuts. Accordaccompanying the Soames cuts last December had implied that ingly, Mrs. Thatcher told her last December had implied that Ministers to concentrate directly on manpower cuts and to come forward with options for 10, 15 and 20 per cent man-

ning reductions.

The first fruits of these exeremerged last December, when Lord Soames announced employment by 39,000 over the next four years. Combined with the effects of a three-month ban on recruitment, these measures were expected eventually to produce a drop of 60,000, or 8 per cent, in the number of civil servants.

a big stride towards 10 per cent, the least ambitious of Mrs. the Government's campaign Thatcher's targets. "The search against "scroungers." for greater efficiency and Law, order and immigration economy will go on." Lord services, which have been Soames assured Parliament at exempted from cuts will grow the time at the general by 2000. the time, "and the general trend in the size of the Civil there were many sceptics who for self-preservation.
At first sight, the recent

disappear by April, 1981, as a limits squeezes and generalised result of the imposition of tight recruitment bans. cash limits, seemed to confound Ultimately, greater efficiency the cynics. The cash limits will in the Civil Service is most allow for an increase of only 14 likely to be achieved by devising per cent in the Civil Service pay better measures of output and bill during 1980-81. Since civil productivity than the tradiservants are certain to be tional ones, which equate the awarded pay rises substantially number of civil servants above this level, the Govern- employed, with the level of ment has assumed that the service to the public.

The reason for this surprising She perceived, rightly, that omission emerged last Wednesemployment was due to fall to less than 700,000, by this date.

Thus it seems that during the past three months of what one minister has called "unparallelled austerity." an extra 15.000 jobs have been planned by departmental administrators. It appears to be these new, and as yet non-existent, jobs which will be cut back as a result of the cash limits squeeze.

There are, of course, good reasons why certain depart-ments have been planning for substantial staff increases over Confounding the coming year. The Social Security and Employment Departments are expected to savings which it was possible to identify reasonably quickly," between them, as a result of Lord Soames's cuts looked like revised assumptions about the rate of unemployment and of

All the evidence available so Service from now on will be for suggests that the Govern-Nevertheless, ment has been far less successful than it had hoped in believed that the Government's imposing a really stringent determination would be no regime on Civil Service man-match for Whitehall's capacity power. In particular, it is a fused too about who will be cause for concern that incressing reliance is being placed on announcement that at least blanket, unplanned manpower 15,000 Civil Service jobs would reductions achieved by cash

# Switch of roles between major world currencies

BY DAVID MARSH

written into the script of importance as international world currency markets: reserve assets. But now all world currency markets: the leading characters have With U.S. interest rates at

record levels and the dollar in top gear after President Carter's anti-inflation package, the U.S. authorities have wrested back the monetary initiative held for so long by the "hard currency" countries. For years, West Germany and

Switzerland, in particular, have grappled with the problems of an over-strong currency and a weak dollar. But now they are dancing uncomfortably to the austere interest rate tune being played in Washington, and central bankers around the rest of the world have to pay attention to the advice so often handed out to the U.S. over the past three years: how to escape from the vicious circle of exchange rate depreciation and imported inflation.

The tables could hardly have been more completely turned. At the peak of the dollar crisis 18 months ago. Germany. Switzerland and Japan were doing all they could to shut out hot money inflows, and were buying dollars by the billion to brake the appreciation of their

## Bundesbank U-turn

Yet over the past month, with sustained upward pressure on the dollar stronger than at any time since 1975, all three countries have frantically raised interest rates and swept away barriers to capital inflows; and their dollar sales to support own currencies have totalled at least \$6bn to \$7bn—one of the most intensive bouts of official intervention since generalised floating rates started in March 1973.

As recently as last autumn, Mr. Henry Reuss of the House Banking Committee was voicing the feelings of many Americans in complaining that the Bundesbank's firm interest rate policies were driving the U.S. into recession. Now it is Herr Karl Otto Poehl, the president of the Bundesbank, who is saying publicly (as he did in a speech in Stuttgart 10 days ago) that the international interest rate escalation could cause severe problems for the world

A year ago, the Bundesbank was spreading doom-laden warnings about the "over-recycling" of international liquidity, and adding its voice to calls for curbs on the Euromarket. That campaign has been stilled now that the Federal Republic, after more than a decade of surpluses, is running a substantial the Bundesbank intends to

to prevent the Deutche Mark, tion.

NEW twist has been Swiss franc and yen growing in three are encouraging foreign central banks and other monetary institutions—particularly among the oil exporting countries-to step up investment in their banking and securities markets as a way of shoring up their currencies,

In Germany, the about-turn has been demonstrated most vividly by the Finance Ministry's efforts to place large amounts of D-mark denominated government bonds with Saudi Arabia. Japan is also encouraging both the public and the private sector to raise yen finance from OPEC; while the Swiss National Bank is openly encouraging foreign central banks to take

dollar shares its international burden more equitably with other leading currencies.

The reality of the D-mark's fully fledged use as a reserve currency will become more apparent if the U.S. continues its present modest intervention to support the D-mark by selling dollars on the foreign ex-changes over the next few months. the U.S. Treasury building up its stock of owned rather than borrowed merely reserves—a course which some central bankers say it may be moving towards as a deliberate

reserve currencies could also finance ministers meet next month in Hamburg to debate further the setting up of the International Monetary Fund's proposed substitution account. The scheme aims to accommodate diversification pressure into "alternative" reserve curboosting the importance in world reserves of the Special Drawing Right. But it may now be in nobody's interest to proceed too rapidly with the

the story of the foreign exchanges over the past few weeks 1977/78, when their currencies were rapidly appreciating and finance, like everyone else, by import prices falling. Now they oreign borrowing.

Most significant of all, howinto reverse, with currency deever, has been the U-turn on preciation, combined with large the vexed question of reserve increases in prices of oil and currency diversification. Ger-raw materials, bringing down many, Switzerland and Japan on their heads more than the heads more th have spent years of effort trying fair share of the world's infla-

United States Japan

advantage of the new high rates of Swiss franc deposits. Net reserve diversification out of dollars has of course come to a halt for the moment as international funds flow into the U.S. currency. But the longer-term effect of deliberate official action to boost the reserve use of the D-mark, Swiss franc and yen can only be to launch the world further along the path towards a multiple currency reserve system, in which the

That would result in act of policy.

The change of attitude on

clearer when leading In perverse contrast to 1978.

has been that money has flowed out of the low-inflation into the high-inflation currencies. This explains the fright of the hard money central bankers. They ere able to profit unduly in the fight against inflation in

Official Intervention by Major Central Banks 20 140 Merch 1873 : 10 Real Effective Exchange Rates 120 110 Interest Rate Differential in favour of the \$ .

W.Germany

A build-up of such imported inflationary pressures is the price of the relative foreign exchange stability in which the world has lived since the dollar support measures of November l. 1978, and the setting up of the European Monetary System a year ago. During the last 18 months, even allowing for the sharp movements of the "maverick" currencies, sterling and the yen, overall fluctuations between the major currencies have been as small as during any comparable period since the beginning of floating.

At a time when inflation rates internationally have been diverging quite sharply. exchange rate stability in nominal terms has disguised far wider movements in real terms that is, when currency movements are adjusted for the differences in wholesale price levels between different countries. This is made clear by the above, which plots chart Morgan Guaranty's indices for inflation-adjusted tradeweighted values of the five main currencies over the last seven

This year alone, the Swiss franc has lost ground by more —to 9 per cent to back up the than 6 per cent in real terms yen support package announced against a trade-weighted basket of currencies. The yen, which of course started for earlier to weaken significantly from its 19 per cer over the last nine months. The Deutche Mark's months. The Deutche Mark's depreciation in real terms since the end of 1979 has been a more modest 2 per cent. And the dollar's 3.5 per cent appreciation this year has taken it back, in real terms, very nearly to the level where it started in March

trade-weighted provide the best of the considerable provide indices measure increase in German, Swiss and Japanese export competitiveness over the past few months. But it has been the decline

of their currencies against the

dollar—in which oil and most raw materials are priced—that has been the chief source of worty in all three countries. This has been the main factor behind the remarkable increases import prices, now running 78 per cent, 39 per cent and 26 per cent respectively above year-ago levels in Japan, Switzerland and Germany. Such acceleration is enough to raise tively favourable rates of con-sumer price inflation of around to 7 per cent will increase further in coming months, especially as wholesale prices indicate a certain amount of inflation is still in the pipeline. Fear of a further twist to inflation makes all three tries very reluctant to fall too far behind in the interest rate

competition with the U.S. Japan

has already moved, raising its

discount rate last week-for

the fifth time within 12 months

at the beginning of March. The opinion of one leading European central banker is that both the German and Swiss cen-1978 highs, has fallen by about tral banks face severe political pressure within their countries monetary tightening now that their interest rates are already historically high in real terms.

imply lower U.S. interest rates for re-appraisal in a series of place.

before long as well as a slow-down in commodity price rises then the Germans and Swiss will live with a weaker cur-rency for a while. But if they feel that the recession is still not on the way, then there will be no alternative to higher rates in these two countries

With the dollar weakening slightly towards the end of last week from its highs reached last Monday against Deutsche Mark and Swiss franc. there may be no immediate need for further interest rate action in Europe.

But now that President Carter has allowed the U.S. prime rate to rise by nearly four percentage points in the first three months of an election year, the Bonn Government, which also faces a test at the polls this autumu, may be less embarrassed by a stern monetary defence of the D-mark on the part of the Bundesbank.

Some Swiss bankers are saying that a " cold war premium on interest rates in Germany and Switzerland may now be sary to attract back international funds withdrawn from both countries in the wake of revived East-West tension over

rates. Hapless Belgium, whose A greater commitment to currency is languishing at the managed exchange rates by the foot of the European Monetary major countries may System, pushed up its discount orically high in real terms. full 8 percentage points above "If it becomes clear," he its inflation rate.

preoccupying central banks ministries.

The desire of the Bundeshank and the Federal Reserve to clamp down on Euromarket borrowing has ebbed away with the realisation that international bank lending is already slowing down rapidly as a result of soaring Eurodollar rates.

A sure sign that this year will be a tough one for Third World borrowers is that western central bankers, while doing their best to stock up their own healthy monetary positions by borrowing from OPEC, are solemnly predicting that solemnly predicting that developing countries will have to weather their oil deficits by tightening belts and running

The financially-strained predicament of even the large reserve holders among the nonoil developing countries will make them highly reluctant to participate widely in the IMF's substitution account. Rether than purchasing the SDR-denominated bonds which the Fund proposes to launch as alternative reserve assets, these central banks will prefer-for the moment at least—to stay in high-yielding, liquid dollars.

## Adventurous scheme

The substitution account may also receive a setback for another reason. Over the past then years the proposal has two years the proposal has received support from the U.S. as a means of taking downward pressure off the dollar, and from Germany as a way of diverting diversification flows from the D-mark. Now that the dollar has recovered, and Germany appears to favour just the sort of long term diversification flows into the D-mark that the account was intended to deflect, neither country may be so enthusiastic about the idea in Hamburg An even more adventurous

reform scheme, this time from the French, may also be a casualty of the dollar's newfound strength. As a main component of his mystery-shrouded plan for world monetary reform. to be presented at the industrialised country summit in Venice in June, President Giscard has apparently been considering a scheme to stabilise the dollar, the yen and the EMS currencies within formal "target zones."

The dollar's rise of more than per cent against the currency benchmark of the EMS, the European Currency Unit, over the past three weeks—in spite of extremely heavy central bank Certainly, one country in intervention—shows how easily Europe already appears to be even generously-set limits could expecting still tighter interest be broken through.

brought back a degree of order rate by a further two points last to the exchange market over the week to a record 14 per cent-a past 18 months. But a return 10 any formalised link between says, "that the U.S. action really does precipitate the long-awaited recession—which would imply long U.S. action really Rising U.S. interest rates and currencies will surely have to the dollar's show of strength wait until the world is economic-have created considerable need.

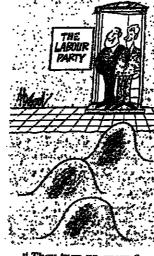
## Phone-book sleuth

with good news Armed with a handful of outdated addresses and access to Directory Enquiries. Alex Miller is engaged in one of his

more outlandish missions. Having paid his own air fare from New York ("I fly Laker on principle—I approve of the man"). Miller has been attempting to contact an estimated 600 British shareholders of a company called Shanghai Power, which was nationalised in 1949. The Chinese-in dire need of good trade relations with the West-are now prepared to pay compensation of \$20m, of which \$6m is being made available to the share holders (many of them Chinese) if they can be found. The deal is part of a far larger action in which nearly 400 U.S. companies and individuals have compensation from the People's

Republic. In the case of Shanghai extremely complicated, in part because its new owners, a forestry group called Boise Cascade, entered a thicket of litigation when it tried to have the stock it did not own declared worthless. According to Miller, "five different law firms have been having a bonanza: so far they've shared

the court will probably direct respectable number of share- demolition. holders by the May 27 deadline.



They turn up every five

Clutterbuck. He had since 1949 become a Major-General, but was still at his old address at Hornby Castle, Bedale. "He got a formal notice, but threw it away. He didn't recall owning any stock," says Miller. Another old lady told him down the telephone that she could not hear him, and would he please mind ringing her friend Mrs. Forsyth, who was not so deaf?

## Peerless pier

President of the New York future of Clevedon Pler begins Shareholder Communications today without the pier. formidable admirer, Sir John fused too about who will be Betjeman. Now 73, he is in paying his bill, which he hopes ailing health and unable to face will amount to \$3 for every the stylised slanging match share he can discover. If his promised over a structure he proposal is accepted, he thinks once described as being "as delicate as a Japanese print." that funds are made available. However, the old campaigner "Somebody will pay for it—I has sent in a tape-recorded plea hope somebody will pay for it." for preserving what is less That will, however, depend on poetically termed a Grade II his showing he can unearth a (starred) listed structure from

Betleman's concern for the So far, he told me vesterday, pier, and for the sleepy he has found five British share. Victorian resort from which it holders, one a Lt. Col. F. juts out into the

Channel, is in part personal. He was a close friend of Sir Arthur Elton, the local squire, who was among the most vocal champions of the pier after two spans col-lapsed during test loading in Elton died in 1973, after he had helped raise a considerable part of the money needed to restore the pier, then esti-mated at £75,000, now closer to £750.000.

With its delicate lines-is was built with salvaged rails—the pier is generally thought to be one of the two finest in England.

## **Tumults past**

The steel strike has reached a stage at which its mere mention is enough to kill any conversa-Hadfields, the private steel com-pany, is persisting with its efforts to liven things up. Its demand for £591,100 as compensation for losses result-

ing from picketing has so far icited no response from South Yorkshire police. Undeterred, the company (which was pointed in the direction of the 1886 Riot (Damages) Act by a help-ful official at the Department of Employment) is now consulting an eminent QC about its chances of making the claim

Hadfields might be well advised to browse through the precedents, not all of which had the desired-outcome. In 1888, for instance, a two-man race was organised on a private race track. Between 4,000 and 5,000 people paid to see it. Unfortunately, both competitors he tells me. "after walking on to the track, did not run, but disappeared by a back entrace." The naturally aggrieved spectators demanded their money back. When it was refused, they "caused much damage." The police, however, escaped financial injury. The race organiser, it was held. provocation by denyoffered ing the rioters their money

More recently, in 1967; a London jeweller fell foul of the

Act's stipulation that those doing the damage must be "riotand . tumultuously assembled together." jeweller was burgled by four men. He sued the Metropolitan Police for £468. The court found that the burglars had indeed acted "riotously"—but, since their activities had not been heard beyond the shop. they were too thin on turnult.

## Sterling rules

Slight ructions, I hear, at last week's annual meeting of the Arab-British Chamber of Commerce, which- as I predicted -duly elected its first British chairman in Sir Richard Beaumont. The former ambassador to Egypt found himself handling a revolt by the Egyptian members of the chamber they eventually walked out in protest.

The row centres on the question of the chamber's £250 annual subscription. which a majority of the Egyptian members — according to the chamber — have refused to pay. This in turn is because of a ruling last year that the chamber would no longer accept payment in currency other than sterling. Perhaps feeling there was some connection with the Camp David Agreement, the Egyptians withheld their money. As the rules provide, they were dully prevented from voting at the meeting.

Beaumont insists that there was no political element in the decision at all. "We were building up reserves of Egyptian currency. It's no use to us,"

## Saving energy

Visiting the laziest person I know last week, I asked him whether-since it was late afternoon—he proposed to get up.
"Put on a dressing gown and
go downstairs," he replied languidly, "and you only fidget."

Observer

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Monday March 24 1980

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To receive all this information (and your regular TV programmes)

Once you have a Prestel set all you do to obtain information is

Office viewdata service, which are constantly being updated and

you will need a special Prestel TV set, which is available from major

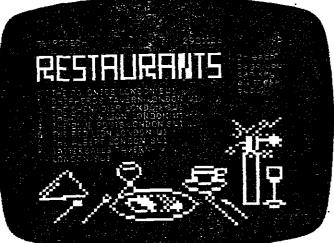
TV rental or retail outlets. This is installed in your home or office and connected through your telephone line to a central computer.

Prestel is available today in London, Birmingham, Nottingham, Edinburgh and Glasgow, and is spreading fast to other parts of the

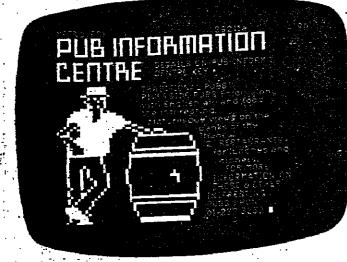
To obtain more information in the meantime, just fill in the coupon below, or dial 100 and ask for Freefone 2043.

This week, Britain launches the first public viewdata system in the world. With Prestel, the Post Office has opened wide export opportunities and is working to exploit its advantage in the market place by forging a unique alliance with computer companies, publishers and television manufacturers.

CONT	ENTS	
Britain's world lead II	Exports	IZ
Business market IV	France	13
	The U.S.	
Services for the name	Japan	
Teletext	West Germany	X
Information providers 7	Holiand	X
Software	Canada	X
Stock Exchange's system VII Dr. Reid and his successor VII	The future	XI
The set makers VIII	Profile: Sam Fedida	XI







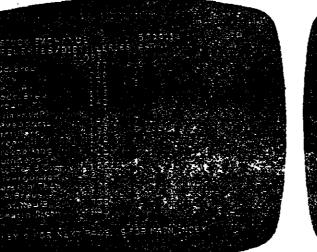


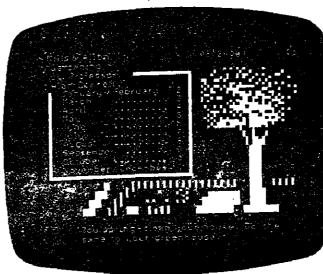
press the numbered buttons on the keypad.

added to.

country.





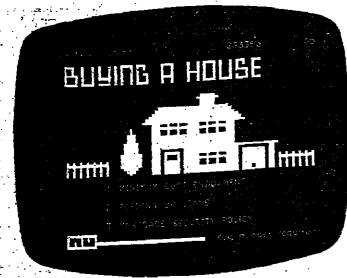




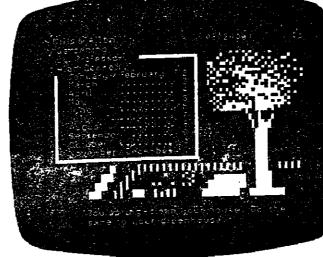








htpl







## **GLOSSARY**

ELECTRONIC technology is developing so fast that the poor old spoken word has a hard time keeping up. The layman struggling to understand what is going on must grapple not only with a multitude of acronyms but also with the fact that the terms used to describe similar products and processes differ from company to company and from country to country.

This glossary attempts to dispel some of the confusion: VIEWDATA: The generic name used in Britain to describe systems for transmitting information stored in a com-puterised data base across public telephone lines and displaying it on a television screen at the command of the

VIDEOTEX: The accepted international term used to describe systems of this type. by the British Post Office for its service after its application to patent the name View-

data was rejected. TELETEXT: A method of transmitting "frames" of information using television broadcast transmissions. Teletext is a one-way system

which does not allow the user to send commands back. Frames are displayed in a fixed sequence, and capacity is limited to about 1,000

TELETEX: A technique for transmitting text between terminals, including word-Has no connection with Teletext

CEEFAX AND ORACLE
(Optional Reception of
Announcements by Coded
Line Electronics): Teletext
services transmitted by the
BBC and ITV respectively in

ANTIOPE (Acquisition Numerique et Televisualisa-tion d'Images Organisees en Pages d'Ecriture): The French teletext system

tex systems under develop-ment or operating in different CANADA: Telidon, Vista.

FINLAND: Telset. FRANCE: Teletel. GERMANY: Bildschirmtext. CAPTAINS (Character and Pattern Telephone Access Information System).
SWEDEN: Datavision.

surely also the simplest provide. Britain has managed to launch the first public viewdata system in the world. Although by no means the only country where viewdata is being developed, Britain has established a world lead that offers significant commercial opportunities both nationally and internationally. This, in itself, is no mean

among overseas post and tele- public's mind. communications authorities, known as PTTs, in emulation. Whatever else you may say about the British Post Office—

THIS WEEK, Prestel leaves its cations) to the ordinary tele- of Post Office policy that it who under the Post Office first. Cost is much less of a ting information about its stocks childhood and enters the adult phone network, and by that must develop new services of "common carrier" policy can factor and business is more and stock availability. world. After about two years means to a central computer this type, in part to make up of technical and market trials store of information, the P.O. for declining employment in and perhaps five years of active has opened up the prospect of planning, not to mention two the first truly low cost, mass telephone exchanges. With the rehearsal first nights, Prestel is finally being launched with a tion retrieval system. Though massive advertising campaign not the only version of view-and an international exhibition, data, this prospect has excited the Viewdata 80 Show from people in many countries and Wednesday to Friday at Wembley. This then is where the fun and games finally stop and the stern tests of commercial viability and public acceptance are faced. facturers and rental organisa-tions, and publishers or other

Terminology

It is perhaps unfortunate that this basically very simple con-ception has been obscured by the difficulty of arriving at a standard terminology to describe it.

This confusion of names has certainly baffled the British public, which has so far shown In devising and launching little general ability to distinguish between the various services. One aim of this week's advertising campaign is ners (and competitors), and has to impress the name of Prestel stirred up viewdata activity firmly and accurately in the

With the advertising launch, comes the acid test-to the Post Office, to TV set suppliers, to information providers (as puban organisation not without lishers on Prestel are called).

All three parties have to pass an organisation not without finites on Prester are carety.

critics—it has in this area acted as instigator and catalyst for what could well be a major innovation in the world's pattern of communications.

By linking the ordinary television set (with certain modifi- cations network. It is an article

ing high, if not exactly saturation, levels, and with structural reorganisation of the Post Office in the offing, there is every world of communications. Significantly, in this context, Dr. Alex Reid, who has for But the most significant thing companies with information to several years headed the Prestel surely also the simplest project, is now moving on to develop a range of new business information systems for the Post Office, and is succeeded as

director of Prestel by Mr. Richard Hooper, formerly managing director of Mills and Allen Communications. For the TV set makers, the test is whether they, in conjunction with the all-important manufacturers of the "chips" that provide the extra elec-

tronics that supplement the normal TV set to make it into teletext-viewdata receiver, can actually deliver, and deliver at a price the public can and afford. There have been well anord. There have been well publicised problems over set supply, which have in part accounted for the delay in launching Prestel. There have been technical problems, especially over the chips, and marketing problems—is Prestel really going to be a sufficient success to warrant large scale investment in production

like within the law of the land, end. Prestel is an information get Prestel off on the wrong system, and without the right foot, with disastrons long-term information, whatever that is, the whole thing collapses.

The middle line is that business will be the scene of information, whatever that is, the whole thing collapses.

Britain has world's first public system

Another test is whether Prestel will be for business use or domestic use. By its very nature, viewdata bears all the hallmarks of a mass market medium and PTTs all over the world see it in that light. So also do television set manufacturers, who think in millions or not at all. It is the potential for mass use that is, in the end, the most distinctive feature of

## Expensive

On the other hand, viewdata is at first sight expensive for the ordinary household, at least at this stage of its development. at fills stage of its development. The rental on a Prestel set is about twice that on a normal colour TV, and then there are the telephone, Prestel computer access and information charges to pay on top of that. There are many who feel that the mass market for Prestel may be five to 15 years away. To some five to 15 years away. To some extent it depends on what you define as a mass market—is it 300.000, a high figure in anything but TV set terms, or is it 3m or higher?

capacity? The early signs are that For the information providers, business will take up viewdata The early signs are that

put on to Prestel whatever they conscious of developments in communications. There are the test is whether they have those who say that the whole guessed with even approximate marketing effort should initially go towards business: there are accuracy what the public will go towards business: there are actually use Prestel for: In the those who say that this would the initial take-off of Prestel,

> There are, it must be added, those who think that the whole idea is a non-starter anyway. Prestel was recently compared to someone who had invented a square ball, built a stadium round it, and then tried to invent a game to play. In more serious terms, Prestel has been called a technology still looking for a use, and this in itself defines the challenge facing the partners to its development

For Prestel is already old enough to have had its casualties—organisations who found, as it were, that they had a square hall and not a round one. Of the drop-outs (as far as one can tell) one was worried by the relative lack of security of data held for private use on Prestel: one was the victim of a change of management; one acceptable levels of cost at this early stage; one—which can be named as GKN since it has described its problem at a public conference—found that Prestel was, though efficient, not cost effective compared to other data and other electronic public. means of storing and distribu- tishing.

cases of public and private sources putting on to Prestel similar or identical information. This raises questions about pricing, since the public sources may well not charge the user, while the private publisher has to charge to make a living. The role of advertising is another matter still to be tested in pracopening the way to mass use tice, although a number of possible advertising applica-tions have been demonstrated, such as classified advertisements, corporate advertise-ments and so-called "adflashes" of the short slogan type.

## Reputations

In short, Prestel is in the middle of—indeed may only be at the beginning of—a long learning process about itself and its public. As a narrow if colourful window on a large world (the screen is only 22 lines deep and 40 characters across, in seven colours, but with about 150,000 screenfuls of information on the computer at information on the computer at the moment) Prestel has a lot of money and expectations, not to mention many reputations, riding on it. Being first away from the starting gate has a thrill, and a danger, all its

## Rex Winsbury

cost-effective compared to other data and other electronic pub-

# Post Office exploits its international lead

the most exciting communications breakthroughs in recent about £100m on the developtions breakthroughs in recent about £100m on the develoption of the service up to 1985. Hold a market trial to assess the sets. There were only 100 it has enthusiastically embraced in a determined effort driven by two main considerations. But in February 1978 it decided and some \$50\$ when it ended.

THE BRITISH Post Office, often cruelly lampooned as an unsupposed as an un

Prestel 1s

an instant source of

business information.

Granadais

an instant source of

Prestel information.

Even now, Granada rent Prestel Viewdata equipment

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to make Prestel a commercial tions. First, a desire tocapitalise to proceed directly to a limited. Numerous technical snags were success.

on Prestel's undoubted lead public service starting in March encountered in management of has been the prime mover developed in other countries. earlier than expected. In the updating the pages on it. behind the service. It has Secondly, the need to enable the meantime, a six-month test. Today, a year after that

limited public launch in London only, a good number of these problems have been ironed out. But Prestel still has only about 2,400 subscribers, most of them businesses, concentrated in the London and Nottingham areas. Glasgow, Edinburgh and Birmingham were added earlier this month. The Prestel data-base currently contains about 155,000 pages of information. The Post Office does not

attempt to conceal its disappointment that the number of prestel service to a total of 18 users and breadth of the service is not greater. But Dr. cent of UK telephone sub-Alex Reid, the energetic 38- scribers. It is working on plans year-old Director of Prestel, to provide access via trunk claims that a remarkable amount of progress has been telescoped into a very short period. In retrospect, he says, the targets were probably too ambitious but served as a valuable catalyst for advancing the

## Triangular

project.

The commercial structure underpinning Prestel is an unusual triangular relationship involving the Post Office, the set manufacturers and the information providers (IPs). Their roles are clearly distinguished but mutually support-ing (though that does not prevent a certain amount of back-biting between them from

time to time).

The Post Office provides the computers on which data is stored and the telephone lines on which it is transmitted. In an unusual departure from its telecommunications monopoly, it has given the set manufacturers an almost free hand in choosing to produce whatever types of receiver they like: indeed, it has strongly urged sets as possible.

The IPS are free to place whatever information they want in the data base, provided it is its first serious test in the form of the fracas over the "Dirty Books Guide" offered by Mills and Allen, one of the principal IPs: It remains to be seen whether the report into the matter ordered by the Post Office chairman, Sir William Barlow, will lead to a tightening of the rules.

All three groups have had problems to overcome. The set makers have had difficulty obtaining adequate supplies of suitable chips to make the Prestel modules. The IPs have found it harder to design pages than they at first thought and have complained that the edit-ing time allowed them to amend pages on the computer is too

The Post Office, for its part, has faced a major challenge in setting the technical details of the system right. Its aim from the outset has been to make Prestel a uniform national system by making the same data available to local callers across the country. This has meant building up a network of identical data bases throughout the UK.

A drawback to this approach is that it involves a difficult choice between expanding the geographic spread of the service on the one hand and adding fresh page capacity to databases already in operation on the other. The resulting com-promises have meant that the number of available pages has not grown as fast as the set manufacturers would like, while the IPs have complained that the service must be en-larged to more potential users in different parts of the

Another difficulty stems from the sheer complexity of devising a satisfactory computer net-work. The Post Office decided to instal a number of small machines scattered throughout the UK rather than a large central one, partly because it wanted to avoid reliance on single host computer which would bring the whole service to a halt if it broke down.

By the end of this year, the calls, technically difficult at present. It also hopes that set production will rise to about 50,000 units a year, though this is considered rather optimistic by the set manufacturers.

The service has so far been taken up predominantly by business, rather than residential users, and this pattern is expected to continue for some time. A feature which has particularly appealed to the business world in the so-called Closed User Group (CUG), which enables a network of subscribers to communicate privately through Prestel by keying in a special pass code known been so strong that the Post Office has had to place a quota on the number of pages in the data-bank available to CUGs-15 per cent of the total—to prevent them from, squeezing

out other users. Another useful commercial application is in travel agencies. These can now be tied into a Preste) network enabling them to consult a wide range of airline timetables and holiday tour schedules. If a customer decides to make a reservation. this too can be handled through

The Post Office hopes that the recent development of a system for transmitting still colour photographs on Prestel will widen its appeal both to business and home users. One obvious application would be to create an electronic equivalent of mail order: viewers would shown pictures of products on the screen and would then place their orders and arrange payment via the Prestel net-

## Agreements

Preste! promoted has also been abroad with some success. Agreements for the sale of the technology have already been reached with authorities in Hong Kong, the Netherlands, West Germany and Switzerland. An interna-tional market trial, involving about 300 users, is due to be launched shortly.

Aregon, formerly Insac View-data, a subsidiary of the National Enterprise Board, has acquired exclusive rights acquired exclusive rights to market Prestel in the U.S. It has already scored one major success, an agreement to supply licences to operate the service to General Telephone and Electronics. So far, more than 20 American companies have signed to use the service

The Post Office is convinced that it must go all out now to lock up as many overseas markets as it can while Prestel still enjoys a development lead. One sign that it is being taken seriously by its competitors was the decision by the French PTT last year to lure away one of the Post Office's top marketing men, Mr. Roy Bright, to head the international sales drive for France's viewdata systems.

Guy de Jonquieres

## First World Conference & Exhibition on Viewdata, Videotex & Teletext

## 26-28 March 1980, Wembley Conference Centre

The largest international display of Viewdata, Videotex and Teletext systems ever seen. Live demonstrations of various national systems.

British Post Office Prestel.

French Teletel. German Bildschirmtext.

Comprehensive display of the Japanese system, Captain. Complete spectrum of equipment and services by major manufacturers of TV sets and

terminals. On-line displays by the information providers.

**Exhibition Hours:** 

Wednesday 26 March 10.00 hrs-19.00 hrs Thursday 27 March 10,00 hrs-19.00 hrs Friday . 28 March 10.00 hrs-16.00 hrs Admission to the Exhibition £1.50 .-tickets available on entry.

## The Conference

Late Registrations

Registrations for the whole conference or for a number of sessions may be booked at the Main Reception Desk.

For admission to the Prestel Show, please enquire at the Prestel Reception Desk when you arrive at the Wembley Conference Centre Quick-Link Service available from Marylebone to Wembley Complex B.R. offering reduced fares before 9.30 am—95p. after 9.30 am—75p return. Any time that day.

For full conference and registration details contact Online Contenences Ltd., Argyle House, Northwood Hills: Middlesex, England HA6 1TS.

Tel: 09274 28211.



## **BELLDATA-COIN OPERATED 'PRESTEL' TERMINALS** Belldata public access terminals

full coin operated service. Connected to 'Prestel' via the existing Post Office telephone network these sturdy, free standing units are ideal for Hotels, Airports, Shopping Centres and many similar locations. The largest

monitor also offers a constant video tape advertising facility. âââ BELLDATA

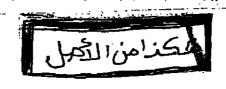
Enquiries welcome on Stand 50, ViewData '80, or at: Bell-Fruit Mfg. Co. Ltd., Leen Gate. Lenton, Nottingham

Up-to-the-hour

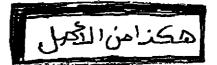
## C.A.P. NEWS FROM BRUSSELS

AGRA EUROPE Prestel Service (Key \* 474 # )

Contact: Guy Faulkner, Agroup House, 16 Lonsdale Gardens, Tunbridge Wells, Kent. Tel: 83913. Telex 95114.



The future at your fingertips.





# There's more to it than meets the eye

Philips' involvement in viewdata goes much deeper than the TV screen.

In fact, from the very first days the company has been creating innovative products and equipment to add a whole new world of knowledge to viewdata technology.

Today-backed by a substantial investment from the Research & Development budget-in excess of £450M annually-Philips Group Companies and Divisions are working together to produce a total capability for all viewdata services.

As we move into a completely new era of business communications and information, you can be sure that Philips will keep you simply years ahead-now, and in the future.

> Purpose-designed business information terminals:

As a major supplier of telecommunications equipment to the British Post Office, Pye TMC was able to use its expertise in viewdata development.

One result is the Pye VISA Terminal for viewdata. Compact and totally self-contained, it has been carefully styled for desk top use.

A nine-inch screen gives easily read display and an integral auto-dialling keypad provides simple access to the computer. No special skills are required, and any size of business can benefit. PYE TMC

> 'Viewdapta' brings viewdata to the standard TV screen:

The Labgear 'Viewdapta' interfaces with the Post Office telephone line

to provide the PRESTEL service on a standard TV-b&w or colour, large or small screen.

It can be used with a second TV-thereby not interrupting normal programmes. And the unit will drive more than one receiver thereby presenting a less expensive alternative to purchasing receivers with a built-in decoder PYE LABGEAR.

Word Processors for viewdata:

Development plans are well advanced for integrating the Philips Word Processor range with both PRESTEL and private viewdata systems.

The VDU/Keyboard Operator Console will provide the dual function of word processor and

viewdata terminal-with additional disk storage facilities.

Substantial economies will be gained where the production of frequently updated printed information would otherwise be an expensive operation. **PHILIPS BUSINESS EQUIPMENT** 

> Colour television for viewdata reception:

Philips colour television receivers were amongst those used for the official British Post Office viewdata trials.

The new 22" 708 with the latest micro processor gives full PRESTEL facilities as well as CEEFAX, ORACLE and all three

domestic TV channels. Now, both the private householder and the businessman has

fact-finding at his fingertips; everything from simple travel time-tables to up-to-the-minute stock market reports. And soon-TV screen shopping! PHILIPS VIDEO

## Video, voice, data or text communications:

The application of viewdata is an intrinsic and essential component of any integrated business communications system.

Typical applications are communicating and 'intelligent' systems for closed-user groups on the PRESTEL SERVICE; or closed-circuit groups via PRESTEL; or on fully inter-communicating networks linked nationwide if necessary-by tielines. Such services could be externally accessed—where appropriate-via connection to the public switched Post Office network. PYE BUSINESS COMMUNICATIONS.

Mullard first with complete viewdata component package:

The massive Mullard investment in the development and production of special components for viewdata systems is a major contribution to Britain's world lead.

This continuing commitment has already earned Mullard an international reputation as the supplier of a full range of components for viewdata. receivers-from specially developed complex microcircuits to the only British made colour picture tubes.

It has also led to the mass-production of the first complete package of fully engineered modules, which provide everything from remote

control to on-screen display. Mullard, the largest manufacturer of electronic components for British industry, are also pioneers in Teletext-and helped to establish the British standard. MULLARD.



AWhole new world of knowledge in Viewdata.

Philips Viewdata (CA 3), Philips Industries, Arundel Great Court, 8 Arundel Street, London WC2R 3DT. Please send me details of the Products/Services of the following. ☐ Philips Video Philips Business Equipment

☐ PyeTMC Pye Business Communications 🗌 Pye Labgear ☐ Mullard

Address:

Name: Company: Position:

> Tel: F.T. 24/3 VD

# Business is Prestel's main market

The main and obvious reason is £14 a month for it. cost: a Prestel set costs around £1,000 (and since they are the Prestel community find it scarce, there is little or no discounting) or may be rented for around \$25\$ a month: the dimension of Prestel. Dr. the market and found it good. number of households prepared to buy or rent at these prices is limited. Recent forecasts predict that the domestic market will remain smaller than the business one until the mid-

Dr. Alex Reid, Prestel's first director (he has recently been year timeframes, and that appointed to head the Post means selling to the easier Office's business systems business market." Office's business systems marketing group) agrees that business will be bigger at first, but disagrees on the forecast. "I think the domestic market will grow more rapidly than that. I think we might see business by 1982 or 83."

per cent said they would not (39

per cent couldn't decide).
Households, on the other hand, didn't take to it nearly so Only 24 per cent said they wanted to keep it, as against 46 per cent who didn't. However, they thought it was good value to pay relatively more atten-

With such evidence, many in businesses only. Roger Tomlinson of Unilever Computer Services says: "The Post Office seems strangely committed to the public consumer in its marketing of Prestel. One feels that the rest of the (Prestel) industry is used to working on three-

## No mystery

rions division (soon to become trend of opinion. After two remains obliged to be so by its nuonths, 54 per cent of businesses surveyed said they wished to keep the set, while 7 per cent said they would not contain the system needs as large 2 months. £40m it will spend on the a willing subscriber? The system needs as large a market answer can be twofold: the as possible to recoup the Prestel community would tend

corporation.
The brute facts of the marketplace, rently force

least over the next few years. said they would pay as much as nationally (as a service, rather would point out that Prestel—

The idea was first mooted in In June last year, the Post Office authorised a limited trial of the service, to cover 200 companies in the UK. Australia, Switzerland, West Germany, Sweden, the Nether-lands and the U.S. Each of the invited participant companies will be provided with a Prestel set, and will be connected with dedicated computer which will handle information speci-ally prepared for international

tion side of Prestel can find a new market in the future. It business information providers facts of the . . . a business tool which will ment services, and marketing however, cur- help cut costs and secure up- surveys. the corporation to-date information . . . and so

than a system) will be aimed at like the other viewdata systems now being developed round the world-is still not a precise entity no one knows exactly what it is, or, as Mr. Tim Cooke of Logica put it in an article in the Post Office's guide to the system: "The strength of Prestel, its extraordinary flexibility, is at the same time its

> easily be defined." His point is made when one asks questions of the system. Is it an information medium? Yes ... but it is more than that. Is it a selling medium? It can be, but it is beavily information-based. Is it a com-puter product? In part: used with telesoftware it can be a

weakness-its essence cannot

This is not a major weakness: definitions are less im-The most recent survey of an independent corporation)
Prestel use, based on a market and placed much more trial of 1,000 domestic and business users over four months, confirms the general public service ethic and indeed much more securing a large and growing the major concern remains imbued with the major concern remains —practical uses for the system. The information providers of business or business or business or business or business or business or business related business rel portant than practical use, and What is the businessman data abound: they are indeed being offered to make him into the most numerous of the pro-a willing subscriber? The viders. They include providers of personnel information, Gov-ernment statistics and services, as possible to recoup the Prestel community would tend ernment statistics and services, investment. If Prestel does to chant the litany of 150,000 market and share data, econonot catch on in the home, it pages of information . . . a mic forecasts and updated news, will not be the fault of the range of specialised and expert company analyses, legal data, corporation.

Business data, because of its general ability to be presented

BUSINESS IS generally held to for money (62 per cent of tion to the business sector. All this is, or might be, true. in concise or even numeric be Prestel's major market, at businesses did) and 51 per cent. The marketing of Prestel intertet. The market trials appear to indicate that the medium has been well received.

## Special sets

Further, the business community is likely to be well provided with specially tailored Prestel sets. Most of the manu-facturers have designed and are now beginning to market desktop monochrome terminals, believing that these will be the first to move in volume. At present, there is a shortage: de-velopment of the components has proved a longer process than expected, and the manufacturers have been cautious about the market. The common belief is that availability will improve as 1980 wears on, though it is quite likely that demand will remain ahead of

Further, the flexibility of Prestel allows itself to be easily adapted for use by what is now commonly known as closed user groups: that is, users in a specific trade or with common needs, who develop a database for their own uses, inaccessible by non-group users but using the

Prestel infrastructure.

Travel agents are the most commonly cited group here, because their needs have lent themselves particularly well to Prestel and they have been the first to seize on it—they are also accustomed to using computer screens and keyboards.



Editors at Mills and Allen key information into the Prestel system

At the same time, a number problems are surmountable. of organisations have offered private data retrieval services to organisations for some years -offering material as, for example, abstracts of technical reports—and many are now working to make their services Prestel-compatible so that they may create new closed groups. There are some problems of compatability: the data retrieval services, for example, typically use a full alphanumeric keypad and access information means

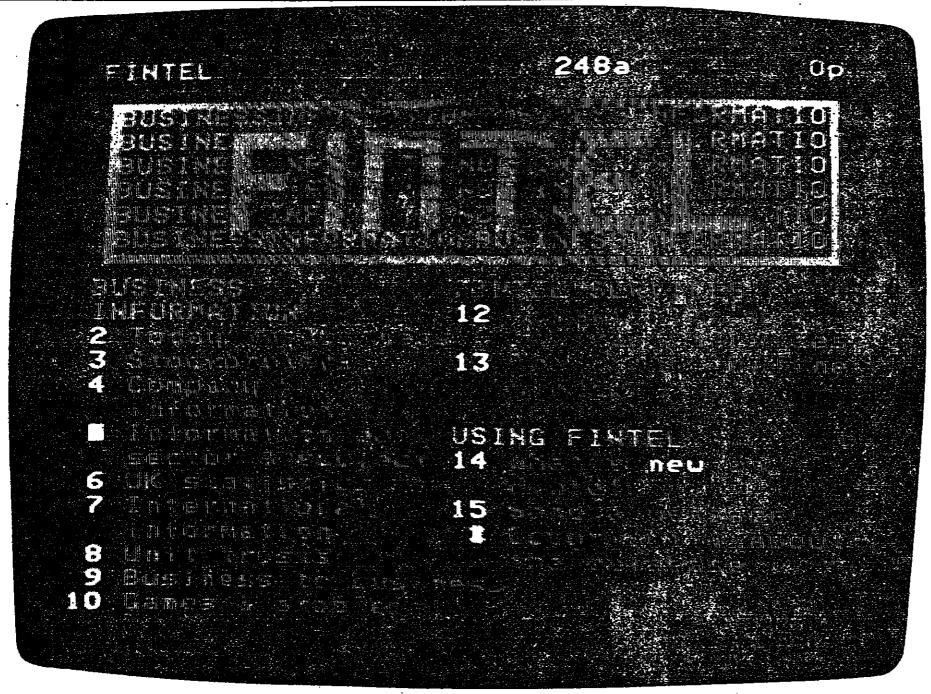
transform that data into information during the process of extraction. "Electronic publishing offers the opportunity to add value at that stage in a way conventional methods never can. Sometimes of keywords, where it is the medium of presentation of data which is enhanced, for Prestel uses a numeric only keypad and accesses down a example by colour graphics or even by microfiche. More often of numbers. But the

Dr. Tomlinson of Unilever environment made available believes that the "electronic publishers" will get a major the key to turning data into publishers" will get a major push from Prestel. He says: "What is different and interestinformation. ing about publishing data in electronic form is the power to

information."

Clearly, the system is there to be exploited. It has some of the imperfections associated with a pioneering product, though there are clear signs that the Post Office, and the other actors on the Prestel stage, can innovate and improve. The test of its success is likely to be the willingness of, in the first place, British business to take up the new

John Lloyd



# RADIO RENTALS ARE RIGHT ON THE BUTTON WITH PRESTELVIEWDATA

As far as Prestel Viewdata is concerned, Radio Rentals have always been on the button.

In fact, we installed the first domestic TV Prestel set. And since that time, thousands of instant, up-to-date pages of information have been added to Prestel. For example, the British Rail Timetable to Scotland, the FT Share Index or the price of the weekend joint - quite literally at your fingertips.

Naturally, as the Prestel Viewdata system has grown, so more and more people are renting Prestel sets from Radio Rentals.

And that's not surprising. Because fifty years' experience, from the early days of television right through to the current exciting developments in video, puts Radio Rentals right up front. Especially when it comes to providing all the latest

services, whether it's Prestel, Ceefax or Teletext.

You can be sure Radio Rentals will keep your set working perfectly with over 2,750 fully trained engineers. That's more than any other TV service organisation.

So call at or telephone any of the showrooms given below for more information.

Prestel Viewdata will be available to around 60% of phone subscribers in the UK by the end of this year. So sometimes installation may be subject to delay.

Visit the Radio Rentals stand, No 71, at the Viewdata '80 Exhibition, Wembley Conference Centre, from 26th to 28th March. Where we are demonstrating both domestic and business Prestel Viewdata sets, and we can answer your questions too.

# Radio Rentals Colour Because we're biggest you get a bigger choice.

10 Holy Street, Forman Tel, Corpica 227 Holy Street, Hourison 13 Riversiale Centre, Lewistam 205 High Street, Oping on 5 Lockwood Walk, Romiced 44 High Street, Sulton 149 Centrel Road, Worcester Perk, Birkhing Holy Street, Bring on 184 Pilgh Street, Sulton 149 Centrel Road, Worcester Perk, Birkhing Holy Street, Bring on 184 Pilgh Street, Sulton 149 Centrel Road, Worcester Perk, Birkhing Holy Street, Bring on 184 Pilgh Street, Sulton 149 Centrel Road, Worcester Perk, Birkhing Holy Street, Sulton 184 Pilgh Street, Sulton 149 Centrel Road, Worcester Perk, Birkhing Holy Street, Sulton 184 Pilgh Street, Sulton 184 Pilg

# New services for the home

munications network in addition to carrying telephone calls, television pictures, written mes-sages like telex, and still pictures and diagrams, also links computers into huge networks. bringing totally new services to the home and office.

Prestel is such a service which gives people access to almost limitless amounts of informa-tion, using the telephone network and the ordinary television set equipped with an adaptor.

The Post Office concept of Prestel turns the ordinary television set into a data terminal connected directly to a computer bringing the full power of such a machine into the home. Few homes in the UK do not

Since both are common, the than asking him to buy what is, in effect, a computer terminal. Prestel at the moment is an information service rather like an electronic version of the yellow pages. It can be used to find out timetables of rail, road or bus services, shopping and entertainment guides, to name only a few of the services al-ready stored on the computer's memory files. All this information is controlled by the user himself by pressing the appro-priate buttons on his calculator style keypad and the computer responds directly to his control.

Since Prestel is an interactive, or two-way system—because it responds to the subscriber tunities. It is feasible to order goods over the network. For extype out the relevant code on the keypad. As the central com-puter keeps a list of all users and knows which set is making the request, it can pass details to the seller.

## Sophisticated

Another development of Prestel could be a more sophis-ticated version of the extensive telex network which is widely used by businessmen to send written messages. Instead of a simple calculator style keyboard, a full electronic type-writer keyboard would be needed. The user (at home or work) could draft and correct a message using the keyboard and the message would appear

on the television screen.
Once completed, the user would need to send a command to the Prestel computer giving the identification number of the intended recipient and the message would then he stored by the computer until the recipient next turned on his television to receive Prestel. A signal would be sent by

the computer that a message was waiting and it would then Prestel is likely to be be displayed on the screen. accepted as an international However before releasing its message, the computer could have decided to experiment with ask the receiver to type out a it. It may eventually become special identity code. Once a an enormously complex system. message had been passed on it allowing subscribers anywhere in the world to have instant puter's memory and the sender access to almost any type of charged for the message based information, as well as being a on its length and the distance

it had travelled. Prestel could be equipped could be used to print bills, bank statements and other documents. They could be transmitted directly from the com-

THE WORLDWIDE telecom- puter operated by the bank, gas or electricity authority, or the Post Office itself, without the need for human involvement.

The system could be carried a step further by allowing the subscriber to pay his bills through the Prestei system. On receipt of an instruction from the subscriber through his terminal, the bank's computer would transfer the amount owed from the consumer's account to that of the billing organisation, reducing the burden on the postal system even further.

## All types

Once a Prestel decoder is built into a television receiver, the television set becomes a possess a television set today display for all types of written possess a television set today and the number of telephones information which is stored is increasing rapidly each year. cassette, for example, could Since both are common, the step of providing Prestel is far store many hundreds of pages of Prestel which would be displayed on a standard receiver with a decoder. This edition of the Financial Times could probably be stored on one C60 cassette.

The technology could be adapted to publish books. Cassette books could be bought at a shop. or they could be transmitted through the telephone network at off-peak times. The sub-scriber would record them on tape for later display on the television screen or connection to a printer to produce a paper copy. A disadvantage would be that pictures or diagrams could not be used.

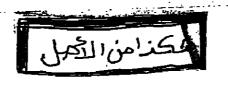
Publishers could list their available titles on the Prestel this opens up immense oppor- computer in the normal way and customers would use the keypad to request the text of the book ample, if someone wanted to they wished to buy. Payment buy a book or obtain more information about a foreign holiday package run by a tour already been described, and the operator, all he has to do is to publisher would have the publisher would have the advantage that no expensive stocks of books need he kept or delivered to book shops.

Once a "master" tape had been produced, no book need ever 20 out of print and no furiner typesetting or printing would have to be carried out. Since the electronic delivery of the book would be carried out at time when the telephone net-work is little used, the cost of the local telephone call at the cheap rate would be a small part of the reader's total expen-diture. It might also be possible to print out copies of newspapers in the home every morn-

propnets electronic world believe that the day will come when most of the population will work from home (those who are lucky enough to have jobs after the electronic revolution, according to other thinkers). Prestel would play an important step when and if such a transition occurred because it already contains the elements of the electronic office systems which are now starting to be used in businesses.

system since several countries vast electronic mail network. But initially, Prestel's impact will be in the world of comwith printers to produce a permanent copy of the message. It the so called paperless — ar electronic-office.

Elaine Williams



# Different means to the same end

TELETERY, which is quite television set. Teletext is a would take 25 seconds: is capable of adaptation and space for each regional station different from viewdata, is broadcast service, requiring obviously the larger the system, extension. The Ceefax team ran to offer up to 100 pages of local exactly the same. By which is only a television set with a de- the longer time if takes, on a special Christmas magazine news, information and comment the systems work different and lower the comment of programme last year based on The first station likely to take est/price — but the net result picture.
of what they both produce is The information, displayed on a streen. Both are wholly part of the "information explosion."

for the prospective user is now set, while the rental premium peing woord to extend the uses per week for a colour set can be of his television set by — in the as low as 80p (compared with a UK several different organis £500 premium on the purchase Office takes the lead, with set week rental premium): also, manufacturers and some in there is no charge for the use formation providers playing the major perts. In the case of the two teletext services, Ceefax and Oracle, the BBC and the Broadcasting Authority respectively cry their

Naturally, the impression given can be confusing, the However, the key limiting BBC 1 service is news-biased, more so since the consumer is factor in the UK service is the with features like headlines, FT given can be confusing, the

ferently, are run by different the teletext services use two of your choice. organisations and are widely the 625 lines which are used to Both the Ceefax and Oracle different in storage capacity and transmit the normal television teams are hoping that this con-

is much cheaper: a teletext TV set costs somewhere between The point is worth making. £50-£100 more than an ordinary ations. For Prestel, the Post of a Prestel set, and a £2-£3 a of teletext information, while Prestel charges both the cost of keeping the phone line open, and the cost per page of information accessed.

## Access time

now being offered sets which slowness of the access time. Four are compatible with the teletext pages of text are transmitted services, or with Prestel, or each second, but pages cannot be accessed randomly. Thus if The key difference between you ask for a page just after it the two systems—viewdata and has been transmitted you must teletext—is in their transmis—wait until the system comes teletext — is in their transmis- wait until the system comes the news and advice columns. It sion. Prestel uses the telephone round to the page of your choice also contains a guide to TV and network, and thus requires the again before receiving it. On a linkage of the telephone and the 100-page system, a full round

meant: the systems work dif- coder and keypad. In the UK, average, to receive the page of

Both the Ceefax and Oracle straint will be eased in the The system is thus rather future. There are, at least in simpler to use than Prestel and theory, some 18 lines available theory, some 18 lines available from the 625, though it is unlikely that all will go teletext's way. More realistic is the belief that the lineage will be lifted from two to six, allowing an average acess time one third shorter than it presently is.

Ceefax, the BBC system, has an older lineage than its ITV equivalent. It was developed by BBC engineers in 1972 from a matrix of already known ideas: like Prestel, it was a British lead, and the BBC claims it is still two years ahead of comparable overseas systems. Ceefax displays between 300-400 pages of information a day, split between BBC 1 and BBC 2. The index, sports headlines, and food prices. The BBC 2 service, known as Orbit, is more of a magazine, offering jokes and puzzles, consumer news and advice, background features on radio programmes.

programme last year, based on The first station likely to take the Orbit concept: there is a up the facility is Westward TV. newsflash facility, where top news is flashed on to the screen in a small box cut into the TV picture: and there are experiments going on to provide, through Ceefax, a subtitling service for the deaf.

## I wo teams

Oracle, developed by the IBA year or so later than Ceefax, is based on two teams: one, concerned with news, works from ITN: the other, whose job is to provide a features service, works from London Weekend Television. It has a roughly similar format to Ceefax, showing typically between 350-400 pages every day, many of them updated several times during the day. It has the disadvantage, relative to Ceefax, of being the product of a federated network of companies, rather than being able to depend on a central bank of information and feature material. However, its regional structure will make it easier to regionalise the service, as it (and Ceefax) means to do

shortly.

The idea will be to continue adin programmes.

At the same time, the service the central service, but leaving

Further developments in the system include the major innovation of making it interactive-that is, allowing the viewer to input into the system, rather than merely receive it. This is being done by means of telesoftware, an established Prestel venture: programmes will be offered to the system, which a customer with a specially adapted keypad will be able to use for his own applica-—as simple accountancy programmes, for example.

However, not only must the

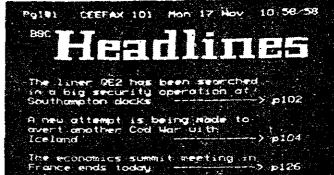
keypad become a hand-held calculator, but the set must also be further modified to be able receive the software: at present, there are only two sets in the country receiving the programmes on an experimental

For the moment, the system remains in an embryonic stage. Both services have been on offer for around four years: there are some 50,000 TV sets in the UK which can receive them. It is clear that it must still make a breakthrough, and it may be that it will do so in company with Prestel.

John Lloyd



A set equipped to the BBC's Ceefax system, with an index to available pages on the screen. Right: the news headlines, arrived at by keying 101



# Facts from 160 sources

COMPANIES and organisations tional data. It also offers figures which provide information for have been envious!" waiting for more than a year for the television set manufacturers to begin making Prestel-equipped sets in large quanti-ties. Future profits depend on rapidly-increasing audiences in both the domestic and business fields-trial audiences can give very little indication of the likely success of a particular

While the Post Office provides the Prestel service, it does not supply or control the information stored within the system. The P.O. sees its role as merely providing the system for use by other people, which is analogous to its role in the public telephone and telex net-

which anyone can supply and cost-sell information. These informa-work tion providers buy storage space on the large Prestel computers and retail all control of the data that they supply, while also taking all the commercial risks

was being developed.

The association has proved to be a powerful lobby, not early in its negotiations with the Post Office, in the provision of services, but also in negotiations with the equipment manniacturers. The IPs have frequently expressed concern that special TV sets are not being produced in sufficient numbers—it was hoped that mass production of equipment would have begun by the middle-to-end of last year, but large scale manufacture will only be achieved this year. when about 50,000 sets become

However, this setback has not prevented the number of information providers increas-ing to more than 160 organisations, offering a wide selection of services, ranging from travel and theatre guides, magazines, careers and health information, to business services, such as finance and stock exchange data, companies' reports and tax guides.

## Dominant .

Forecasters believe that business-users will predominate among the viewing public in the early years of the service. have selected this area in which to offer specialised

Exchange uses its own Epic computer system to update its service on Prestel regularly This includes a list of 800 share

and Extel draws upon informa-tion collected, stored and published by its parent organisa-tions. It takes in data from such publications as the Inves-tors Chronicle, the Banker, and the Financial Times Business Information Service, as well as all of Hatel's services. Fintel offers appears on 150 companies as well as less detailed information on a further 600.

non on a further 600.

DataStream, specialists in company financial statistics, gives data on more than 1,000 companies. Last year, Jordans also joined Prestel with its own service to the business communications.

Not surprisingly, one of the largest providers of statistics is the Government through its Statistics Service which covers a broad variety of economic, social, regional and interna-

on trade, energy and agriculture. This is in addition to public information offered by various Government departments and local authorities.

Another significant class of information providers are travel agents and related organisations, such as airlines, railways, tour operators and hoteliers. The television screen is an ideal medium in which to display travel information which is why the travel industry has become one of Prestel's largest users.

Prestel is useful for displaying list: such as airline and rail schedules, travel facilities, especially for the businessman lists of hotels and restaurants. booking arrangements, available standby flights, as well as other data which might include world, details of local currencies and economics, as well as general tourist information.

## Holiday details

nvolved. Tour operators such as The information providers— Thomas Cook, Cosmos, Horizon known as IPs—very quickly and Tjaereborg provide details decided to set up their own association so that the P.O. British Airways, Sealink and Seaspeed display timetables. The ABC Travel Guide has time-pressel was being developed. tables for British Rail intercity train services and all scheduled air flights.

Book and magazine publishers also represent a large proportion of the information providers. One reason for this is that systems such as Prestel, which can provide electronic versions of magazines and books, could completely change the nature of publishing. So publishers therefore seek their own survival when paper forms of publishing may eventually

of publishing may eventually diminish in popularity.

Major trade, technical and newspaper publishers in the UK already have a foothold in the market. They include such names as IPC, Morgan-Grampian—part of the Trafalgar House

Another class of IPs provide wide range of general interest data on topics such as gardening

and leisure.

Not all the information on the Prestel system is for general public reception. Some of the data is only accessible to certain viewers by special sub-scription. This is a closed user-group system and is usually provided for professions or parti-cular sectors of industry. For example, solicitors can subscribe to a service which gives them advice of latest legislation. Another example of a closed user-group would be retailers who can obtain information on supplies and delivery times.

Well-known companies, such as Standard Telephones and Cables (part of ITT). W. H. Smith, Michelin, ICI, the General Electric Company, and GKN, all use Prestel to promote their services and activities to the public or industry cus-

Careers information and educational opportunities are two other areas where Prestel is being used extensively. The Open University, and the University. sites Central Council on Admission, give advice to prospective students, while other organisa-tions provide lists of educational books and careers guidance.

Whether the individual viewer's interest is business or leisure someone is likely to be providing the information in the hope that one day Prestel will be the first source that people turn to when they need factual advice or guidance, just as people tend to dial telephone inquiries, rather than search through the pages of the tele-

**Elaine Williams** 

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# Critical areas emerge in software

THE VIEWDATA and Prestel software development process seems to be growing impres-sively since original work first evolved at the British Post Office eight years ago under the direction of Mr. Sam Fedida. Prestel claims to have a three-

year lead over the rest of the world in software development and one lesson learned is that simple and effective data input facilities are as important as data display. The industrial need for "umbrella" informa-tion providers (IPs) has given rise to the design of special software not initially perceived and it is this administration of the national network, with the problem of editing and updating the information, which is the most challenging task of all.

Work in the UK, particularly in software development, continues to move at a brisk pace.
"We are adding customers at the rate of 15 a day, where twothirds are business users and the domestic user is very active too." says Mr. Keith Clarke, bead of Prestel research and development. "The technical and commercial problems are by no means over but I think the solutions will be to the benefit of our customers and the industry."

At first sight, viewdata soft-ware appears to be deceptively simple, but significant forces at work in the architecture of the system reveal that a great deal of time and skill has had to be given to three critical areas: the design of the user protocol or dialogue: matching the software structure to the hardware and matching the software structure to



Building Prestel sets at the Thorn Electronics factory at Enfield

Mr. Fedida's major contribu- the home and office. Special tion was an effective system where the major emphasis was placed on an easy-to-use, mini-mum cost package intended to appeal to a mass market, which was perceived by him to exist both in the business and the

In this mass market, immediate usage without lengthy and complex prior training is essential. The most important rule laid down at the beginning of the development phase was that training manuals were not admissible. Prestel is easy to operate, compared with a typical computerised database system where the user needs to learn a special language, which

accounts for the enthusiasm for the system around the world.

A first step beyond the research phase of the early 70s was to design a faster, more efficient public service to fulfill three specific needs: a billing

efficient public service to fulfil three specific needs: a billing system roughly equivalent to the telephone billing software to meet full audit requirements; an information gathering system to provide statistics, and a network of computer dissemination links to update information at several Prestel service centres. "I think our hippest single problem was that biggest single problem was that it had not been clear until recently exactly what kind of editing facilities the IPs really required," says Mr. Clarke.

## Extension

After the preparatory period was developed on a Hewlett-Packard 2100 MX computer to prove the question and answer technique (the user protocol). The next logical extension was to design a full time-sharing ability to support the Post Office target of 200 simultaneous users on a single computer, the GEC 4080, using the specially written pilot trial demonstration software with a person to person message capability, calculating facilities and a series of sophisticated games, in addition to information retrieval. Launched at Eurocomp in 1975, this show-case package developed for two years on PO computers at Martlesham, lent itself very well as a testbed for the TV industry, and at international demonstrations worldwide, where it finally laid the groundwork for Post Office sales to foreign administrations.

With its next phase of development, the Post Office concentrated on extending the software to support a market trial running under two computers at Gresham Street. Its purpose was to gain commercial feed-back on the viability of the system and to provide a test-bed for the billing information system. At the end of its run in September last year, the PO introduced the first stage of public service software, a full system of multipoint computer networks spread across major towns, which received database updates from the PO's national updating centre in

production, marketing and distribution of telesoftware is a difficult and specialist task, and here the PO is extending the viewdata concept from the distribution of information and data to the distribution of software. Telesoftware is the generic name for distribution of computer programs by means of the Prestel network, with the PO acting as a common carrier and private companies as the originators of that software. which can then be loaded for a variety of applications into microprogrammed terminals on the customer's own premises. The purchaser pays a small charge for the software each time they use it.

"In exactly the same way as Prestel has provided a market outlet for existing publishers, it will also provide a market outlet for specialist firms such as software houses and games manfacturers who would use the PO in its role as common carrier to distribute their prosays Mr Clarke.

Since the advent of the "miracle" chip, programmable local intelligence can be found in a variety of locations, both in

viewdata characteristics permit a full range of applica-tions for both small and large businesses and the ability to acquire telesoftware easily and very cheaply via Prestel will have a significant impact on applications extending from VAT and home games, to carving a large market niche in the

field of education.

Telesoftware development work carried out by CAP-CPP, under the direction of Mr Ted Sedman, will now work on any private or public viewdata system which uses protocols similar to Prestel. These are some of the possible commer-cial applications developed by CAP for intelligent viewdata terminals.

CAP claims that telesoftware may be used to enable database users to extract the data they require faster than they would normally achieve. Once the data is retrieved from Prestel, tele-software makes it possible to process the information and perform calculations directly on it. A useful extension to view-

data is the processing of re-sponse frames using the intelli-gent terminal. Telesoftware could be used here to validate all data sent from the user to the IP. by checking it as it is entered and only transmitting valid data. For example, an order entry system in which checks can be carried out for valid item numbers and stock.

There is no doubt that as the functions that IPs perform on-line to the Post Office computer may be performed offline on a terminal reprogrammed via the viewdata network to be performed locally. Examples of such are processing response frames, update, interrogate and providing offline editing facilities, specific to a particular IP's requirements.
For information security and

to protect programs against piracy, CAP has built into telesoftware a number of security keys which enable the IP to specify for how long the program may be used: after this period the program becomes invalid and ceases to work.

Offline from the viewdata network, the user can run his own programs entirely in his own free time.

It is likely that colour and graphics will soon come to be standard for displaying information in the office, in the same way that colour TV has taken over in homes.

## Gateway

An example of just a few of the possible business applica-tions would be in the area of private viewdata which is likely to develop into an important communication gateway in the future. Companies like GEC, Aregon and Thorn are now offering private standalone viewdata systems. The Post Office see these complementary systems as contributing to the general development of the UK industry and making it more viable for everyone.

The Stock Exchange, which recently bought a system from Modcomp, has specially tailored software which permits a number of users to share programs and data file by access to the same information

at the same time system-wide.

The individual user system with local intelligence enables the user to run programs not previously possible with standard Prestel-he can write directly into the display memory so that information updated instantaneously on the screen with the added capability of dialling Prestel, the Stock Exchange, linking through to his own computer, or going through to local viewdata.

Another capability of CAP's communications software gives users scattered across the country direct access to training programs using intelligent terminals with graphics and movement operating offline with no charge. Claimed to be a cost-effective solution to computer assisted learning, menu select allows for multiple choice question multiple choice question in programmed tests, each

student can interact directly with the terminal and neither student nor teacher requires

knowledge of programming.

CAP is concentrating more on the business market because the ability to store information which the computer then displays in graphic format and colour is indeed an attractive communication aid. Viewdata is 40 characters a line and here CAP has re-written the soft-ware using the restricted screen width. In the future it will be possible to use standard Prestel protocols for distribution of programs which are capable of using 80 character

MicroCobol. independent programming language, developed by CAP is specially aimed at the pusiness market worldwide. Based on Cobol, it makes this language suitable for interactive use on small machines and also extends it to include modern structured programming con-

## Penetration

The Post Office will make telesoftware available to any customer wishing to connect and Mr. Clarke predicts that much penetration of the mass market will come in the form of TV sets where he sees a of TV sets, where he sees a healthy future for home computers with microprocessors in Prestel and Teletext sets (Ceefax and Oracle).

A customer with an intelligent terminal can assess telesoftware via broadcast teletext and a big difference with Prestel is that the provider of telesoftware can levy a charge for this service, thus creating viable market. As both services become part of our daily work and leisure, telesoftware will remain compatible with earlier generations of teletext, with the PO, BBC and the IBA more concerned in giving the TV industry a long period of stability.

Some of the features which are regarded by the PO as essential requirements for second generation Prestel are the display of photographic material making editing cheaper and more convenient while maintaining compatibility with broadcast teletext.

Within the UK, the PO, BBC.

IBA and the IPs are concentrating on achieving a single standard, as their major concern is to achieve bulk TV set and information sales using the proven TV models now in production, and the existing database.

Research carried out by the Viewdata and Visual Telecommunications divisions of the Post Office Research Centre indicate that the provision of colour picture inserts for Prestel pages is possible by one of several picture coding schemes, at a range of transmission speeds. The promise of Picture Prestel is such that a change to intermediate graphics systems is unlikely to be worthwhile," says Mr. Clarke.

Mariene Brown

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# Stock Exchange unveils TOPIC

WITH ITS gleaming orange and cream computers, bright green air-conditioning equipment, and room on the seventh floor of the cost will be less. Stock Exchange skyscraper pro-

For the exchange's present means of transmitting news and prices is rapidly growing out of date. The Market Price Display Service (MPDS) can only carry around 800 stocks, while the new system will be able to accom-modate some 1,500. And MPDS only has three of its 22 closed circuit television channels available for the large and increasing quantity of news that companies are pumping out each day.

## Furniture

Since its introduction in 1969, MPDS has performed well. "It's part of everybody's furniture." says Mr. Nicholas Remingtonaway they'd scream." So MPDS

"We've got a desperate space problem," adds Mr. Remington-Hobbs. Apart from the limitation on the number of prices carried, the traded options page is crammed to overflowing, and the features channel is currently squeezed by the inclusion of six gilt-edged prices. The SE decided some time ago, therefore, that it would have to enter some sort of contribution to the the Viewdata field.

The exchange has found a handy name for its new communications child: TOPIC (Tele- decided the exchange to use this text Output of Price Informa-Computer). Already about 500 sets have been of using the existing MPDS net-ordered, and Mr. Remington- work but then found that neither Hobbs's department, pleasantly the quality nor the capacity surprised by the level of would be adequate.

\*\*The exchange then turned its\*\* these installed in the first year of operation. The eventual demand could reach 2,000—the

coloured display screens, the broking and jobbing firms the. For one thing, there was the

vides an oddly futuristic confairly evenly split between announced, everyone connected trast with the scurrying human those inside the market and activity on the trading floor those not directly involved in immediately. If the system beelow.

dealing. The first sets to be
It is from this room that the delivered will be for the SE's Stock Exchange will, in a few own prices department, but weeks' time, launch its most others near the top of the list cold, especially in the system's ambitious step into the field of include brokers like de Zoete modern communications, giving and Bevan and Kemp-Gee, the subscribers speedier access to Akroyd and Smithers lobbing more information about the firm, merchant banker Guinness market than has previously been Mahon, and the British Rail Pension Fund.

"We think it's the basis of a only will subscribers be able to key into the latest market data, but they will also have access to the Post Office's own public Prestel system. And member firms can make their own data available to selected clients through TOPIC.

The Stock Exchange started along its present road with EPIC (Exchange Price Information Computer) which came Telegraph (Extel), this sends out price data to MPDS, as well as to Extel's own financial Hobbs, manager of the SE's information systems and to information and communications Reuters. Jobbers' running prices more subscribers come department. "If you took it are fed into EPIC for the 1,500 other will be ordered. or so active securities, with will be retained for another figures for the less active ones three years, after which it will put in twice a day. On a really be decided whether to keep it busy day, over 4,000 prices may be inserted.

It is on the basis of EPIC that the exchange has produced TOPIC at a cost of around £1m, including all the equipment. Unlike MPDS, the SE is actually marketing TOPIC, though only on a fairly low-key basis at present. It aims to balance its books on the system, though this may later have to make exchange's general finances. It was the establishment of a

common text for Teletext and Viewdata transmissions that means for its new system. At first it looked at the possibility

attention to the possibilities of the PO's Prestel service, for which it currently provides

members paying £2,870 a year the possibilities of Teletext, it Gandalf—familiar to Tolkien system will also display, in barplus £990 for each extra was less sure about Prestel's readers as the wizard in "Lord chart form, the relative daily receiver. For member stock actual suitability. of the Rings"—which was set performance of each sector and

danger of congestion. When a To date, the demand has been major piece of financial news is with the market needs to know comes overloaded at such peak periods, some subscribers could well find themselves left in the early days.

So for this reason, as well as those of usage costs and the continuous updating of information, the SE decided to work on own Viewdata system designed to meet its specific super system for the 1980s," needs and be under its own says Mr. Remington-Hobbs. Not control. There would be no curbs on storage capacity, users would have swift access to the news they wanted, and the information could be displayed in an effective way using receivers produced in massproduction quantities and compatible with public services in the field.

For the computers to run TOPIC, the exchange went to a U.S. company in Florida, Moduin about 24 years ago. Developed lar Computer Systems (Mod jointly by the SE and Exchange comp). It bought two Classic comp). It bought two Classic 7870 computers at over £110.000 each, one to handle the arsi 1.000 receivers on the system and the other for back-up. When more subscribers come in an-

> For the terminals to be installed in subscribers' offices. the Stock Exchange finally agreed on two suppliers. One is a Belgian TV manufacturer, Barco, and the other is a consortium, Bishopsgate Terminals. specially formed by the Hambros banking firm, Modcomp, and Alphameric (a UK keyboard

## No preference

At this stage, the SE is expressing preference between the two suppliers. Its future purchasing attitudes will future purchasing attitudes will University College, and was depend on the production flows then hired by the Post Office from the companies and the per-formance standards of their studies division, where he sets. The first terminals have come from Barco, an established concern. The Bishopsgate Terminals group, on the other hand, was formed specially to build a business Viewdata terminal for the exchange's needs, with the aim of exploiting the product more widely later on.

TOPIC's microprocessor-based SE's initial sums were based daily data on around 800 stocks. communications devices have

Britain. Curiously, it had already come up with equip-ment ideally suited to the SE's needs as part of its own develop-

ment programme.

What, then, will the TOPIC subscriber be able to see on his screen? As with MPDS, he will be able to call up any desired prices along with all the main movements during the trading session. But since the upward and downward swings will be shown in different colours-red for down and blue for up, as on the jobbers' boards on the dealfloor—he will have an immediate impression of price trends for an individual stock, sector, or the whole market.

"The use of colour is extremely important," notes Mr. Remington-Hobbs. The

by two engineers from give an indication of the percentage movements. Colour will also be used to highlight company announcements. These will not only have more space, but generally be kept on the system for a whole day along with an index. Major commodity prices and currency rates will be shown, and it will eventually be possible to show leading stock market indices, such as the FT 30-share index, on a rolling basis.

> There is also a unique feature "jump button," which will enable a subscriber to switch at once from a major news item, such as a bid, to the information which it is anticipated he will need next, like the share price.

> > Andrew Fisher

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# Alex Reid: a hard act to follow

survey coincides not only with approach. I was given enorthe world's largest viewdata mous support, but a pretty free exhibition, but with the appointment, on April I, of Mr. Richard Hooper as director of entitled to regard his three Prestel in succession to Dr. Alex Reid. Few would deny that Dr. Reid's influence on the development of the Prestel system has been an enormous one, and that his will have been a hard act for Mr. Hooper to follow.

Dr. Reid took a degree in years in the Fleet Air Arm as a helicopter pilot. He returned to his architectural studies at University College, London, where he took and MSc and a PhD. From 1970 to 1972, he was a director of the Communications. Studies group at to head up its long-range stayed from 1972 to 1977. In 1977, he was appointed project manager then, in 1978, the first director of Prestel.

He says: "From the start,

top management saw Prestel was a new kind of venture for the Post Office and needed a new kind of strucbeginning to work with the

THE PUBLICATION of this and that needed a wholly new

years at the head of Prestel as successful. He has established a context in which the corporation can work with information providers on one hand, and set makers and distributors on the other: and though some grumbles have been heard on other: the massive presence of the architecture at Trinity College. Post Office steamrolling opposi-Cambridge, then spent five tion, it has been muted and in-

consistent. He set himself killing deadlines, and while they initially slipped by some months, he reckons that had they not been so strict, the time taken from planning to launch would have been three years, against 18 months. He has been able, he and that a system tailored more says, to count on dedication and hard work from a team motivated by the knowledge it was breaking ground no-one else in the world had.

. The one major criticism made of Dr. Reid's policies—though says it will catch on as avail-they are not purely his, being ability of sets improves and as in this case partly dictated by Post Office wisdom-has been of his insistence that Prestel is a medium for consumers as well as business. It is argued that the into people's homes at low high cost of the set, and of using initial cost: the "play" aspect ture. We set out from the as business. It is argued that the on a possible 1200—with sub- Yet while it was keen on using come, at a cost of £230,000, private sector in a way the it, will deter all but the upper of Prestel, as well as its teach- but he did sanction its publications who are not SE the telephone network to exploit from an Ottawa firm called Post Office has not done before. reaches of the domestic market, ing applications, will make it a tion. Much steam was raised



Dr. Alex Reid

exclusively for business would have had greater initial success. Dr. Reid is wholly unrepentant on this issue. He believes it was and is correct to push Prestel as a public medium, and says it will catch on as availprices come down with discounting and with extra produc-tion. Rental chains, he thinks, will play a role in getting sets

accepted household tool.

Dr. Reid will be able to monitor closely whether or not Barlow, the Post Office chairhe is right: his new post, as man. director of business systems Sir William expressed con marketing, has Prestel in its cern, the Post Office denied charge. He leaves his seat "with that it was attempting to exersome regret."

more and more commonly

languages. He joined the BBC as a general trainee, then spent customers which the extra a year, from 1967-68, on a Hark-ness Scholarship is the Trainee attracted since it gained ness Scholarship in the U.S., publicity, studying education and communications. He returned to the BBC, where he became a senior producer, and from 1970 to 1972 he was at the Faculty of Education studies at the Open University. In 1973 he became director of the national development programme in computerassisted learning; and in 1978 he joined Mills and Allen, where he was made managing director of Mills and Allen Communications, its viewdata arm.

He has already made news. though not in the way he would have sought. Mills and Allen, which is one of the largest information providers for Prestel, offered among other attractions a guide to pornographic magazines and books. Mr. Hooper did not have the idea nor did he supervise it: but he did sanction its publica-

questions were asked in Commons, and Mrs. Mary White-house wrote to Sir William

cise censorship over what was His successor, Richard Hooper, is 40, with a first class degree from Oxford in modern the guide, no doubt to the dis-

Mr. Hooper seems undamaged by the incident: he is as enthusiastic as Dr. Reid about Prestel's future, and as committed to its prospects in the domestic market. He says he sees the system in the same way as Dr. Reid, but that his task will be to ensure the Prestel becomes a mass market product.

"We change gear this month with the big advertising campaign. Prestel ceases to be an experimental system and hecomes a public service, in a production environment. My task is to make sure that it works as an operational reality. This means I will have to get involved in some of the smaller things-the first thing will be to see that sets are available, and then to see that we match set availability with computer capacity.

J.L.

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cations where high software quality is particularly important.

In addition to conventional viewdata retrieval

methods, search by keyword and search by user-

Interactive processing is easy with user-prepared

service programmes which can be used with any

page. These "action frames" provide a convenient means for the use of MISTEL in various appli-

Automatic refreshing of the page on all user

Pages can be generated automatically from

source data with MISTEL utility programmes. This feature is useful when the MISTEL system is

On-line updating of the data base.

displays when the data base is updated.

defined automatically generated directories, are

possible.



A VIEW DATA SYSTEM FOR BUSINESS USE

THE MOST SOPHISTICATED

PDP-11 VIDEOTEX SYSTEM AVAILABLE

Softplan is the leading Finnish software house specializing in systems programming and appli-

Softplan has developed, together with Sanoma Publishing Company, the Helsinki Telephone

MISTEL is a system built on TELSET and intended for business use. It provides an inexpensive

ing systems.

Message switching.

minicomputers.

linked up with the company's other data process-

Pages can be defined so that they are updated

automatically when data relevant for the page is

entered. For example, hierarchically cumulative

reports can be produced by entering the lowest

Can be run on DEC PDP-11 (RSX-11M) series

Also available for use with Honeywell Level 6

Powerful editing and graphic utilities.

minicomputers (from the end of 1980).

Company and Nokia Electronics one of the first viewdata systems in the world - TELSET. It is compatible

way of distributing information to all those needing it inside the company, at the same time ensuring that

the management retains control of confidential information. MISTEL can be used either as an indepen-

MISTEL FEATURES:

For further information, please contact Mr. Seppo Laube-Pohto, Export Manager, after April 7th, telephone Helsinki (90)6926611.

Softplan was established in 1973. The company employs over 60 experienced, university-trained software engineers. In 1979 tutnover was £ 1.5 million. Softplan belongs to the Nokia Group which, with a turnover of more than £ 400

million and over 16 (00) employees, is one of the largest industrial concerns in Finland. The activities of the Nokia Group cover forest industries, rubber industries, metal industries, electronics and plastics. Nokia has plants and

subsidiaries all over the world and its products are sold in more than 60 different countries.

dent data collection and reporting system or as an extension to the company's other data processing

systems. A MISTEL system can be linked up with other MISTEL systems or with public viewdata

with the British Post Office viewdata system and has been in experimental use in Finland since 1976.

A recently established viewdata company will soon inaugurate a public TELSET service.

American Express Company Incorporated with Limited Liability in the U.S.A. J.S. Quarticy - Resident Vice Fresident United Engdom and Ireland.

# Growth depends on set makers

data and teletext services gain public acceptance during the next few years will depend on much more than their intrinsic much more than their intrinsic novelty and usefulness. It will also be critically influenced by how quickly television manu-facturers, distributors and rental companies can supply suitable sets in quantity and at what price levels.

To date, the running has been made by teletext-only receivers. made by telefext-only receivers.

Roughly 40,000 of them have
been installed in the UK and
industry forecasts point to
deliveries of as many as 100,000
this year, with a further big
rise in 1981. The sets sell at a relatively small premium over conventional colour televisions typically about £100 — which goes some way to explain their

All the major British television manufacturers are also producing Prestel sets, as are several foreign-owned firms and multinationals like ITT, Philips and Sony. But output volume is still modest. By early March, only about 2,600 sets had been installed, considerably fewer than the Post Office had hoped

in their own interest to create a market for the service by gearing up for large volume production. Dr. Alex Reid, add value (and therefore profit) to their products comparable to that afforded by the introduction of colour television a few

## Teething

The industry's slowness to sets they need to achieve large seize the baton so ezgerly production volumes. But the seize the baton so eagerly production volumes. But the tendered by the Post Office is due in probably equal parts to technical teething troubles, component shortages and component shortages are reduced to a reasonably affordable level. Though mercial cautiousness. Prestel sets resemble ordinary televisions externally (and do, broadcasts) they are considerably more complex inside.

Unlike the teletext set. a that is, it can transmit as well as receive data, enabling the user to hold "dialogue" with the audience

translate information travelling from the computer into words and graphics.

added an electronic memory to store page "frames" while they are displayed en the screen and a control unit,

complete "modules" for Prestel sets this year.

The U.S. company General production. Dr. Alex Reid, Instruments is also moving in Prestel's Director, argues that as a chip supplier and GEC, it offers them an opportunity to which makes its own com-add value (and therefore profit) ponents for the Prestel sets which it is manufacturing, also expects to sell them to outside customers.

ing at about £300 a year.
One way to boost the Prestel central computer to which the adaptors, designed to plug in to set is linked. It therefore Lab Gear offers such a device needs input and output pro and the Post Office has also cessors to handle instructions, considered marketing one. But It also requires a modulator/ apart from the inherent diffi-culty of obtaining the same picture quality as with a specially-built Prestel set, the P.O. is reluctant to abandon the "hands-off" policy which it has so far adopted towards the

may be several years before strone popular demand for Prestel sets for home use

According to the Post Office. only in per cent of Prestel sets now installed were acquired by home users out of their own pocket. Another 20 per cent are heing used at home but paid for on company expenses. The rest of the sets, 70 per cent, are installed in offices, which are expected by the industry to continue to provide most of the demand over the next five years

The industry argues that the size of the Prestel data hase is still too limited and user costs. (in the form of telephone and page charges) too high to attract a truly popular audience

To these elements must be

either a simple keypad or a full alphanumeric keyboard, similar to that on an electric typewriter. Finally, the whole assembly must be electrically isolated to prevent inter-ference with normal television

It has taken the manufac-turers time to get all this hardware working together smoothly—when they could obtain the hardware at all. For they have also been handi-capped by an acute shortage of suitable silicon chips—a con-sequence of the general scarcity afflicting the world market for advanced micro-

The position is considerably easier now. Though Texas Instruments, until recently the main chip supplier, is said still to be having difficulties produc-ing components in satisfactory than the Post Office had hoped for.

The Post Office strategy for Prestel relies heavily on the assumption that the set manuscript with the set with facturers will see it as being expects to turn out about 30,000

> In commercial terms, the manufacturers have faced a "chicken and egg" problem. To lower the unit cost of Prestel reduced to a reasonably affordable level.

The latter objective has yet to be attained. The cheapest large of course, receive television screen colour Prestel set now available sells for about £900, or about the same as an ordinary colour television set and a video Unlike the teletext set. a cassette recorder together.

Presiel set is fully inter-active: Rental rates are also high, start-

would be through

modules and because of sharper competition between suppliers. But they also believe that it

derelops.



Mr. Tom Crane of Buxton, Norfolk, runs three companies farming 2,000 acres. He has a Prestel set as part of a Ministry of Agriculture experiment. He uses it for information on stock prices, crop diseases, and details of day-to-day farming life in East Anglia

## MAJOR PRESTEL SET MANUFACTURERS AND THEIR PRODUCTS

Сотрапу	Screen sizes	Colour/ Monochrome
Decea	14, 16, 22, 26	Colour
GEC, Radio & TV	26	Colour
GEC, Telecomms.	12	Monochrome
ISE	14	Colour*
ITT	16, 26	Colour .
Jasmin	14	Colour
Kirhy Lester	14	Colour
Philips	22, 26	Colour

Company ·	Screen sizes	Monochrome
Pye TMC	9	Monochrome
Руе	22, 26	Colour
Rank	26	Colour
Rediffusion	20, 22, 26	Colour
STC	7.5	Monochrome
Sony	14	Colour
Thorn	14, 22, 26	Colour
Thorn	14	Monochrome
	Source	Post Office.

The market is also expected to remain predominantly a rental one for the immediate future. Prestel sets have been in production for only a short time and have an unproven reliability records.

· Coin-operated.

Development of Prestel sets is expected to result in improved software, making them easier to use and more versatile. In addition, a new generation of business sets is expected to emerge shortly equipped with input/output ports making possible connection to peripherals like hard-copy printers. There are also plans to give the sets expanded local memory, enabling a user to perform calculations on them as he would on a computer

Tox returns

Interesting possibilities have provision of Prestel receivers.

The set manufacturers forecast a substantial increase in known as Telesoftware. This production this year, to about will permit a Prestel user to 40,000 or 50,000 units. Most call up from the central comalso expect prices to come down puter a ready-made programme somewhat, both because of a for performing tasks such as drop in the cost of Prestel payrolls and preparing income payrolls and preparing income tax returns. The programme would be stored in a memory built into the set for as long

> The Post Office is doing its hest to promote Prestel among home users. At the end of this month it is launching a £im

It forecasts that by about 1983, home users of Prestel will outstrip office subscribers. The manufacturers are more sceptical. ITT's Commercial Intelligence Unit forecast recently that in 1985 there would be about .800:000 viewdata sets in operation or on order. But it expected that only about 10 per cent of homes with telephones would be composed with sets by then and used by husinessmen.

Guy de Jonquieres



## VIEWDATA FOR THE CONSTRUCTION INDUSTRY

Is the construction industry information service on Prestel

Will provide a co-ordinated information service for specifiers in the construction industry

Is sponsored by the Department of the Environment

Is designed and compiled by The National Building Agency

Data base has information from the leading Information Providers in

the construction industry Will contain in its data base information on building costs, building products, news and events, statutory requirements, technical references, and advertising

Pilot service is now operating

Will be on display on Stand 31, Viewdata 80, Wembley Conference Centre, 26-28 March 1980

For further information and demonstration Write or phone Bernard Anker, Dip Arch, RIBA, CONTEL, NBA, 7 Arundel Street, London WC2R 3DZ Telephone 01-836 6688

# Looking for the best Prestel set? Let's save you time and money.

As we all know. Prestel is designed to improve business communications and save time and money. But what you probably didn't know is that there is a set that saves you even more time and money. It's our special Prestel

Viewdata Colour Set. For instance the set has a memory, which means you can store your four most used pages and call them

whenever they're needed.

You can also select your next ten favourite pages and programme them with a direct page key to recall their numbers at any time. It's your own mini-Prestel directory on the screen.

And in both cases you save time and money by not going through all the unnecessary pages to get to the information you want.

Then there's something that's really ingenious. As an optional extra we supply an audio tape recorder which, when plugged in, allows you to record unlimited pages and recall them at will, on the screen. And you can save even more money by recording at off-peak 'phone time and recalling at no

charge. Clever isn't it?

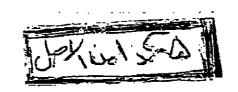
Finally, don't forget that this set can receive all normal TV programmes in coloure and can also link up with video recorders, to give you a full record

and play-back facility. t And the cost? Well, we think you'll be pleasantly surprised. Ring Paddy Roache on 01-894 6566 or return the coupon and we'll send you all the information you need. We can't claim our terms are lower than others but we can claim our Prestel sets will save you more time and money than others.

See us on Stand 71 at Viewdata 80 Please send me information on your Prestel sets

I'm interested in renting \_\_\_\_ sets (indicate number).

BBF Radio Rentals Contracts Ltd.



# UK leads the battle for exports

THE INTERNATIONAL market- Canadians, who again have users to it, along with a chance, The other gap, paradoxically. Viewdata receiver sets can in ing of Prestel is taking place at written their own system. The that may not be repeated, to is the United States. The exact principle (unless individual than it countries deliberately chose to three levels. There is the direct French have been actively establish British viewdata chain of events there is sale by the British Post Office of the Prestel software and system, exhibitions and conferences in vice and information companies fact is that viewdala has not yet and information companies fact is that viewdala has not yet and information companies. A few really caught on in the U.S., exactly as operated in Britain, competition with the British on the world scene. A few really caught on in the U.S., to other countries. So far the P.O. has made sales to Holland, Germany, Switzerland and Hong Kong, and is busy marketing to many other countries.

Secondly, the Post Office has given a licence to Aregon, known until the other day as Insac Viewdata, the National Enterprise Board viewdata software subsidiary, to rewrite the system for different computers and sell it abroad, principally is the United States. There, Aregon has made one significant sale, to General Telephone and Electronics, but it is not yet Post Office, either directly or clear how GTE, in partnership through Aregon-Insac, are

international. As its name cases where an overseas PTT intellies, this is to be a service may have to choose between buy. instance by multinational companies. This wear is to a service of the property based on Prestel computers in ing Prestel from the P.O. and panies. This year is to see a market trial of Prestel Inter- to national, to determine the via-bility of the idea.

## Potential

Thus there has been from the very beginning a strong awareness of the export potential of Prestel and of the know-how that went to create it, plus an awareness that the export advantage of having the first operational viewdata service will not last for ever, with a mine whether, and how, Gerland of perhaps two to three many should subsequently lead of perhaps two to three many years over other countries, write years over other countries, write its own viewdata system. Britain has the chance, first, to sell its system to other PTTs are keen on the idea that viewwho want to get quickly into the viewdata act: and secondly, to establish the British technical standards, or something very like them, as the international standards for viewdata. This own machines, would in itself be a great The viewdata advantage to British firms simply receiv making viewdata hardware, inquiry, routes peripherals, receivers, and vant computer, receives back offering extra software and consultancy services, besides the extra revenue it would generate for the Post Office itself.

But it is already clear that battle for international supremacy is under way, not unlike the battle that took place over colour television ticular, have created their own own way.

communications operator, it become yet a fourth riewdata system, incompatible

Thus there may be a one-off bids fair to become yet a fourth with the British one, and have opportunity to make sales of arm of the international market-forged an alliance with the Prestel, and to attract overseas ing effort for Prestel-viewdata.

Prestel team.

Even though there is not yet an operational or trial service in France itself—one starts in the Velizy area outside Paris at the end of this year-there is no doubt that the French hope that some of its superior features, like better graphics, will in due course give it an edge in export markets. The Finnish Telset system, a small scale but successful viewdata project. was also created by a local consortium.

The sales made by the British Thirdly, the Post Office has the contract to Logica, the somputer consultancy firm, to nevelop and manage Prestel international. As its three-pronged approach seems to have produced positive

It should of course be made clear that sales of the Prestel software do not necessarily imply that the overseas country in question will continue to use the British system indefinitely.

The Germans, for example, having bought and slightly modified Prestel for their own market trial of viewdata, are quite explicit that one of the functions of the trial is to deterdata should in due course become wholly or mainly a "front end" or "gateway" for computerised data held by the

own machines.

The viewdata computer then simply receives the user's inquiry, routes it to the relevant computer receives have the moment. One is the first the moment of the first the moment. viewdata style, and displays it to the inquirer. Though this idea is part of the long term thinking of the British Post Office, it is not part of the nearer-term development programme. So it is quite possible that the Germans will in two systems. The French, in par- or three years' time go their

less competitive.

Thanks to the fact that many countries use the Roman alphabet or close variants of it the Japanese have their eye on those countries that use different alphabets, and it would be rash to suppose that they will not succeed-there is receptive international market to systems, and data, in the English language and style. The critical thing now is to ensure that Prestel works successfully as a public service in the UK. Failure in the UK would effectively put an end to the international opportunity, and destroy the international credibility of Prestel and all those suppliers and service companies associated with it. By the same token, even reasonable success in the UK ever the next one to two years, while most other countries are still in their market trials and in the throes of making their decisions about what to do afterwards, would put British know-how and expertise in an almost unassailable position as

## Competition

world leader.

For it is equally clear that there has arisen a sert of com-petition between PTTs to keep up in the viewdata race—a competition sparked off by the British Post Office. What the BPO had, the other PTTs felt bound to have as well; or at least felt bound to give it a try. And there are a lot of PTTs in the world: therefore there is potentially a huge market in viewdata systems and the hardware, software, services and (not least) information needed to make

wealth and keenness to be in the van of new technology (and of new expensive toys, which viewdata can be as well), there has not yet been a sale of Prestel. However, Cable and Wireless for one has been interested in promoting viewdata in this area, and with its status as an international tele-

demonstrating their system at manufacturing, software, ser-described elsewhere. But the exhibitions and conferences in vice and information companies fact is that viewdata has not yet years from now the environ- despite interest by such organi- at the relevant long-distance ment will be more rather than sations as GTE and Knight- call rates or, one hopes in the Ridder. Whatever the reason, it must remain a serious hiatus in world viewdata development. Continuing caution in the U.S.

> opinion in the long run. For viewdata is, essentially a world market that knows no frontiers. It may be true that national PTTs serve national the technology is, or easily can be, international. Unlike international.

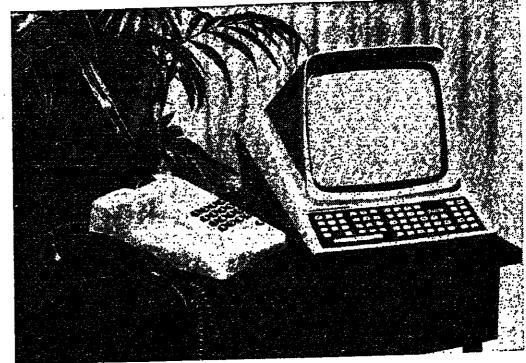
would certainly affect world

printed products, which have to be shipped in bulk, and expensively, from one country to another, viewdata pages can be shipped by telephone line, magnetic tane floury disc or other netic tape, floppy disc or other contest. easy means from anywhere to

countries deliberately chose to put obstacles in the way) dial in to viewdata computers anywhere else in the world, either future, via dedicated lines and nodes that offer cheap international data access.

There are problems about the trans-border flow of data, such as privacy, copyright, and rules governing advertising. But like computers and calculators before them, viewdata systems are true citizens of the world, and interests and set up viewdata in a yery simple sense that systems on a national basis. But defines the marketing challenge and opportunity.

So far, the British Post Office



The French Annuaire Electronique TRT system

# France develops separate system

viewdata so far, for an electronic telephone directory that will replace the existing printed telephone directories in millions of French households

over the next 15 years. Using a screen that is essentially a viewdata screen, the telephone subscriber will be able to quizz a Post Office computer for the telephone number that he or she wants, instead of thumbing through the printed directory. The French reckon that in

mass production these small-size viewdata terminals for the home will be at least as cheap as the bulky printed directories they replace, and will have a much longer life and provide a better service to the customer, since the computer can be con-tinuously updated. This will also save on the time and salaries of people employed to answer directory inquiries over the telephone. The pilot project will cover 250,000 subscribers in the Ille and Vilaine area of France from 1982 onwards.

If this project succeeds—and its critics say that no computer information retrieval system on that mammoth scale has ever been made to work before, so the proof of the pudding remains very firmly in the eating-then it will in effect place

known period of time. This terminal can then be used for other types of information.

To test what types of information may be acceptable to the public, and what new rules and regulations may need to be made to allow the information to be provided, the French authorities are also running a more conventional viewdata market trial, under the name of Teletel, in the Velizy area outside Paris. This is due to start towards the end of this year.

## Residential

This will be almost exclusively a test of residential use, as opposed to business use, and will involve about 3,000 households, if present plans are ful-filled. Another aim is to use the Teletel computer centre both as a place where informa-tion providers (IPs) can store information that the customers may want, and as a gateway to data held on the IP's own computer. One important aspect in which French plans differ from British plans is that they intend viewdata eventually to perform wholly as a gateway of this type. If these plans succeed, there will in due course be no

direct manual editing on to

years to come.

The other major divergence from the UK is that the French have written their own viewdata system, perhaps in part for nationalistic reasons, but anyway technically incompatible with Prestel until such time as international standards for viewdata are established. In certain respects the French system is superior to Prestel, for example in the quality of its

graphics and in the ability to make groups of pages "roll" automatically in sequence without further pressing of buttons on the keypad. But it is still a laboratory system, untried in practice, and it remains to be seen how many of these superior features survive the acid test of a real viewdata service.

It is true to say of Britain that the early experimental system in the laboratory had superior features, like the sending of messages from one user to another, that did not survive the transition to a full market

But what is certain is that the French see themselves in direct competition with the British in world markets for viewdata

FRANCE'S VIEWDATA plans a viewdata information terminal revolve around an ambitious project, unique in the annals of Government initiative, over a of input in the UK for some exhibitions and conferences. system at demonstrations, rival the successes, detailed in another article, of the British Post Office in selling the Prestel software to several other

## Canadian link

The French have also forged an alliance, whose direct consequences have yet to be seen, with the Canadians, perhaps in an attempt to consolidate an anti-British front. The Canadians have also created their own—or several of their own -viewdata systems, and have a strong interest in selling to world markets.

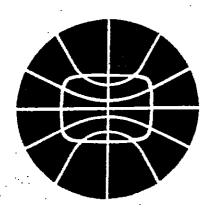
What is clear in France is the strong political and Govern-ment commitment to the development of viewdata as part of the "informatisation" part of the "informatisation" of French society—an effort to catch up and surpass other catch up and surpass other domestic market. In many catch up and surpass other countries in the increasingly important area of information important area of information collection and transfer by electronic means. Perhaps paradoxically, strong commitment by the French could be of benefit to the UK as well, by demonstrating internationally the capabilities and scope of

French plans for the Velizy trial are equally ambitious, and involve up to 200 organisations offering services of one kind or another. These include booking of train tickets, scrutiny of bank accounts, payment of bills, automatic mail order, Government information of various kinds, and other services offered by the telecommuications authority itself.

There is great stress on the inter-active, response features that viewdata can offer (ordering, booking, paying). Again in the light of British experience of the complexity of making these desirable ideas work efficiently in practice, the rest of the world will wait with interest to see how the Velizy trial actually progresses.

It is also clear that purely business uses of Teletel, though present in the minds of the French planners, will ride on the back of whatever respects therefore the French will be trying out technical and marketing strategies for viewdata that will, whether they succeed or fail, carry lessons for every other country that takes viewdata seriously.

R.W.



# Why take a narrow view (data)?

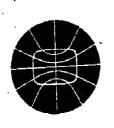
Most organisations are being attracted to viewdata by its powerful benefits of low cost and ease of use.

The French Telematique Programme however applies these objectives to much more than just information retrieval systems!

In addition to offering full interactive facilities such as calculations, message services and reservation/transaction features all to be available on Teletel from the outset, French industry is developing a unique variety of compatible products.

- \* A range of stand-alone, private Videotex systems
- ★ Videotex front-ends to interface with existing "hosts"
- ★ Videotex compatible "Key Word/Associate Search" software
- \* Genuine low-cost monochrome terminals (as part of the Electronic Directory project)
- ★ Combined Telewriting/Videotex facilities
- ★ Dual purpose "Mass-Fax" terminals offering hard-copy for Videotex receivers as well as low cost fax (Group II) and copying features.

Find out more about these new and wide-ranging, opportunities and the special arrangements for international collaborations, to be announced during Viewdata '80, by visiting intelmutique (Stand No. 11) or by attending the special French Videotex session scheduled for the conference on Wednesday p.m. 28th March.



TELEMATIQUE



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# Slow response in America

THE UNITED STATES is remarkable for the caution with which, on the whole, it has approached viewdata. This is for a mixture of technical, regulatory and patriotic reasons. There are viewdata experiments planned or in progress, but they do not represent as yet a significant degree of commit-

The major event for Prestel was the sale last year to General Telephone and Electronics, the second largest U.S. telephone company, of a rewritten version of the Prestel viewdata soft-ware. The sale was made by Insac Viewdata, now known a Aregon, acting as licensee for the British Post Office. The software was rewritten for use on DEC computers, as opposed to the GEC computers that are standard in the UK.

Activities

GTE has also acquired in the recent past a packet switching network. Telenet. and is a manufacturer of television sets in its own right, under the Sylvania label. So GTE seemed to be in the process of setting up a new range of information activities that at least included the viewdata concept.

Later there was an announce-

ment that over 20 well-known American companies had signed up as users of the GTE system, which was in effect to be operated jointly with Insac-Aregor These companies included Chase Manhattan Bank, J. Walter Thompson, McGraw Hill, Time, and Merrill Lynch. Each company was to have up to five terminals connected via Telenet to the computer.

been reported that the management team responsible for view-

(formerly Insac Viewdata)

Specialists in Viewdata and suppliers of

the Prestel and IVS-3 range of Viewdata

systems for business, private and public ser-

vice networks throughout the world

being made to develop the GTE-Britain.

The other company that has shown an active if low level interest in the viewdata concept is Knight-Ridder, one of the largest and technically most progressive of the U.S. newspaper chains. It has gone its own way by designing a viewdata system of its own, and setting up a separate subsidiary company called the Viewdata Corporation Again, however, the scope of of America, to operate it.

A trial of the system is being implemented in a rather small number of (presumably affluent) homes in the Coral Gables area of Florida, not far from the Miami headquarters of Knight-Ridder. It is said to involve only about 30 receiver sets revolving around 150 house-

Aregon contract

In the eyes of some observers, the smartest thing that Knight-Ridder has done so far is to acquire the name Viewdata in their subsidiary company's title. This caused some frowns at the British Post Office and at Aregon, since the Knight-Ridder design has no connection with the UK or with Prestel.

On the other hand, even if the motive of Knight-Ridder may be defensive as much as offensive, to defend its market against future inroads from electronic information systems. it has at least shown that a major publisher with substantial in-house technical resources can independently get into the viewdata business if it wishes. This is also demonstrated by

the Sanomat publishing group of Finland, which is a partner in the Telset viewdata system locally designed and now oper-



Anthony Chandor, managing director of Aregon International, and John Graham, marketing director. with an IVS-3 frame announcing the change of name from Insac Viewdata

data at GTE has been reshuffled.
and it is hard to discover quite what concrete plans are in fact purchase by VNU, the large what concrete plans are in fact purchase by VNU, the large what concrete plans are in fact purchase by VNU, the large with publishing group. The purchase by VNU, the large with publishing group of its them. There is also one for them the purchase by VNU, the large with the purchase by VNU, the large own viewdata system from

> The other U.S. viewdata project is known as Green Thumb, and is run by the U.S. Department of Agriculture. The aim is to give farmers information about weather, crop conditions and other matters of direct relevance to them. This is to be done by means of a special add-on box to the television set.

200 farmers' homes in Kentucky are to be tested out this year,

be a practical demonstration and implementation of the view-

But over everyone there hangs the big question—what, if anything, will AT & T do? As by far the largest U.S. telephone company, it is technically in a position to develop, or reject, viewdata and influence almost everyone else's attitude towards it. But there are problems connected with federal the initial trial is limited. About regulations governing AT &

the company and outside it, about AT & T's role in the quickly developing world of computer communications.

The U.S. is in any case a highly competitive environment T's services, in particular the in which to launch new informa-1956 consent decree that barred tion services, with far more options about how to implement

mental project not unlike the

French electronic . telephone

directory, using a small black-

and-white terminal to answer

inquiries about telephone

attitude to viewdata must derive from the general debate, inside

T has announced a small experi- and Europe. In Europe, phone calls are usually paid in by the user, and the Authorise has a financial incentive to crease the number of telephode calls made, for whatever purnumbers. But overall, AT & T's pose, In the U.S., you usually pay one set price for use of your telephone, however many calls you make. Therefore one of the fundamental ideas of viewdata in the eyes of European authorities—to increase telephone revenues—simply does not apply to most of the

R.W.

## Alphabet game in Japan

JAPAN'S experiment with view-data began in December, with departments and advertising a system called CAPTAIN, the initials of Character and Pattern "publishing landscape" looks Telephone Access Information Network. It involves about 1,000 households in the Tokyo area. with 150 or more information providers (it is odd how almost all viewdata systems seem to attract about the same number of information providers at their trial stage) and perhaps 100,000 pages of information.

CAPTAIN has at least one pared to European viewdata systems. The Japanese language uses Kanji characters, adapted from Chinese, and about 3,000 of these are in daily use (the a massive over-supply of inforgrand total is many thousands mation sources in terms of radio Use of any Japanese keyboard for typing typesetting and other forms of novel conor computer work, is therefore sumer electronics like video a highly skilled and specialist discs and cassettes. If the demarding great concentration by the operator.

Also, it is virtually impossible to build a character generator inside the TV set which would satisfy this enormous require-Therefore, CAPTAIN tenerates the characters, not locally in the TV set, but centrally in the main computer system and then transmits them he TV receiver. This makes whole configuration r mereπt.

Second'y, most of the inforproviders hand-write leir contributions tas do journotists, for example, on newsprpers) and then send this handof keyboard operators to enter into CAPTAIN. This in itself places limitations on the speed of input and update to the

Another difference from the UK system is that CAPTAIN is not, strictly speaking, being run by a telecommunications authority like the British Post Office. Instead, the Japanese have set up a special organisa-tion called the Captoin System Development Institute to run it.

This is an attempt to insert a relatively neutral observer in parties. But it does not imply anything about the way that CAPTAIN will be run when and if it becomes a full public

There is no doubt that the Japanese were in part motivated by competitive zeal when they saw the efforts of the British Post Office in setting up Prestel. There is also a keen commercial motive—the desire to capture the market in viewdata equipment and know-how in all those countries that do not use the Roman alphabet but some sort of complex system of characters such as the Japanese. Chinese and many other Far East languages do.

The information providers. however, share a refreshing doubt with their British counterparts about exactly what information will be the most suitable for viewdata transmission. This matter is earnestly debated the world over, and no one yet knows the final answers. It is still, everywhere, a technology-

The information providers are also a dissimilar bunch, as in Britain. They comprise newspapers and other traditional publishers, travel agencies, department stores, railways and quite different on viewdata when compared to the scene in printed publications.

In many ways Japan will be an instructive test case for the acceptability of viewdata. It is. on the one hand, a nation fascinated by electronic gad-getry, and brilliant at manufacturing all forms of electronics. It has an almost saturation level distinctive feature when com- of telephone installations, and is increasingly developing computer applications in all fields.

On the other hand it already has, by international standards. and TV channels, newspapers, Japanese consumer has to pay for his viewdata information and during the trial he will not be asked to pay, unlike Britain where one purpose of the early trials was to test the consumer's reaction to price—will the average Japanese make way for viewdata among his welter of electronic choices, or not?

## Project

CAPTAIN is by no means the only information retrieval system being experimented with that uses the television screen in the home as the output medium. For example, there is another project called the Video Response System, also on trial in Tokyo with 100 sets, which uses a broad band cable to link the television set to the central computer-unlike view data which is normally defined as using the standard telephone network for its data transmis-

A cable-based system - also being developed in certain of the Canadian experiments with viewdata-enables a far greater variety of data to be sent to the user, in the form of words still figures, required. It is also more expensive, and probably presupposes an already installed cable network such as exists over large parts of the U.S. and Canada, but is less frequently found in the UK.

The development of CAPTAIN is to some degree separate from the other question facing Japanese equipment manufacturers of television sets, namely, how far to get into the manufacture of viewdata receiver sets for the British and European markets. In the early days. Japanese makers were in effect barred from supplying the UK market, in an effort to stimulate British industry.

But that restriction is now made its viewdata debut with a terminal initially aimed at the test trial of Prestel International but no doubt available for other purposes. Given the problems that have existed over set supply, the entry of at least one prominent Japanese sup-plier has generally been welcomed in the viewdata community. Thus Japan may after all develop an equally strong interest in those markets using the Roman alphabet.

The ITT viewdata printer VMP 1 (above) will print a viewdata page in 18 seconds. Below: an ITT editing keyboard designed for information providers

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# W. Germany takes Prestel

text as it is called in German. But the German Bundespost, or PTT, has made it quite clear that on the basis of the trial and the evidence produced, it may well create its own viewdata system for long-term use. Meanwhile, it has employed Aregon-Insac to help adapt Prestel to German circumstances.

Unlike Holland, which can use the standard British alphabet, the German language has a number of individual characters of its own, such as the vowels technical trial in one place and corrying the umlant and the double S. German is therefore other. The two computer centres will be linked, with the one of the languages, French being another, which raise the question of what an internationally acceptable character Many newspaper and publish-set for viewdata should contain. ing groups have taken a far

echeduled to start at the beginning of this year, but appears to have slipped back or inter-active and broadcast paper. Therefore the viewdata to about May-June. Meanwhile videotex, to use the standard pages must be clearly an extena so-called "technical trial" has continental terminology. It is sion of the newspaper pages, been in progress, during which seen as a potential threat to The other item of no pages on Bildschirmtext.
This technical trial

WEST GERMANY has bought especially useful for the huge monopoly over teletext trans- Gestaltung in Offenbach am August, where German view-paper" demonstrata made an impressive public Berlin exhibition. debut. Many suppliers featured viewdata receiver sets, and the Bundespost had a large and crowded hall almost entirely privately-owned bastions of free mercial application for graphics devoted to it. Information pro-enterprise, is more acutely felt of this quality remains to be viders mounted a special effort in Germany, in part for histori-seen, but the HFG pages are for the exhibition, which must be counted as a significant public relations success.

> Berlin and Dusseldorf-Neuss. residing on each.

ment of viewdata and teletext-

the British Prestel system for its Radio and TV Exhibition, or missions, and went as far as to Main. These stretch to the trial of viewdata, or Bildschirm. Funkaustellung, in Berlin last mount their own "screen news limits the capacity of the paper" demonstration at the Prestel graphics facility, and are

> cal reasons. German publishers are at times critical of UK pub- tion of what viewdata can do. lishers for not making more fuss The market trial itself is to over the BBC-ITV duopoly of the conducted in two centres, teletext in the UK, confirmed by the recent Annan report on

## Close ties

However, German newspapers have been joining in the Bild-schirmtext development in considerable numbers, very much on the theory that what the The German market trial was more serious view than their public reads on viewdata should cheduled to start at the UK counterparts of the develop- be closely tied to what they do or can read in the main news-

The other item of note information providers have been newspaper economics. The on the information provider able to experiment with their newspapers have sought to conside is the excellent series test the right of the broadcast- of graphics created by a German ing organisations to have a institute, the Hochschule fur

perhaps more impressive and The polarity between broad- original than any other graphics casting organisations, as organs on any Prestel-style system. of the State, and newspapers, as Whether there will be a comanother impressive demonstra-

> man authorities are also quite clear that they do not intend to build up a large network of viewdata computers. Here their philosophy echoes the French rather than the British. The long-term intention is to use viewdata as a gateway between the user and computerised data held on information providers'

Whether this ambition can be

In the longer term the Ger-

squared with the desire of the newspapers to treat Bildschirmtext as some sort of enter version of the newspapers is which human beings in the less another matter than remains to other human beings in the less systematic manner of normal systematic manner of velopments there is some latent conflict, both technical and economic, between those who see in Germany, such as the passing viewdata as a computer net-



Viewdata was introduced to Germany at the nternational Radio and Television Exhibition in West Berlin last August. West Berlin's mayor at the time. Klaus Schnetz, points to the screen watched by the West German Post and Traffic Secretary, **Kurt Schuetz** 

work (and therefore eminently sale lists, perhaps classified advertising) and those who see

of the necessary laws in the

relevant Lander, or state, and suitable for systematic data the organisation of a reliable such as timetables, house-for- supply of receiver sets; and computers in Germany, as in the UK, still have a terrible habit of going down. But the level of interest, and the scale of potential investment by the various parties seem to augur well for Bildschirmtext, at least at this early stage.

# Dutch to run market trial

name of Viditel.

But one unusual peculiarity of the Dutch scene is that there is another viewdata system being run by one of Holland's largest publishers, VNU. This is also the Prestel system bought from the UK, with extra modifications done by Aregon-Insac.

There is therefore the interesting spectacle of two more or less identical viewdata systems going into operation at more or less same time in the same country, one from a public operator, the PTT, and one from a private operator, VNU. What remains to be seen is whether they compete with one another, in terms of information providers or users of applications, or whether they arrive at different spheres of application.

VNU itself will be a substantial contributor to the PTT system, and the PTT Viditel system may be one route, or even the main route, into the VNU system. Šo it seems a fair guess that the two systems will in due course settle down to

some form of co-existence. Another feature of the Dutch approach to viewdata is that to get round, or to help to get round, the type of set supply difficulties that beset the early period of Prestel in the UK, the Dutch PTT has made it a condition of becoming an informa-tion provider that the IP also provides one user, with a

In this way the onus is on the information providers to provide at least an initial audience for their data, and at least an initial demand for receiver sets that the manufacturers (principally and inevitably Philips) can respond to. But it is fair to add that some of the potential information providers are not happy with the proposed contract with the PTT, in this and in other respects, so that the future is not entirely certain.

But several British com-panies, information providers to the UK Prestel system, have indicated their interest in becoming information providers

HOLLAND has bought the UK in Holland also. Given the tech-Prestel system and is running nical similarities of the systems, a market trial from about and the geographical proximity, August of this year with 100 or this seems an obvious move, and more information providers, it would be surprising if Dutch This trial, run by the Dutch information providers did not PTT, is now known under the appear on the UK system also (there already have been one or two, such as the newspaper De Telegrant). The UK com-panies on Viditel include Baric and Fintel.

What is to the outside observer rather less obvious is the reaction of the Dutch press to Viditel. In the UK certain newspaper publishers, in particular the Birmingham Post and Mail, Eastern Counties News-papers, and the Financial Times (through Fintel) have made substantial investments in Prestel and other viewdata activities, and other groups like the Scotsman have more recently followed suit.

But many newspaper groups have stayed outside this development, or are at least waiting.

## Single service

The Dutch Press has however tried to get together to form a single large all-embracing information service on Viditel. under its own separate name of Krantel. This would have an information structure that embraced all the newspapers, as well as the national news agency ANP, each with its own allocated slot under the individual newspaper's title within the total design. Thus the Krantel database on Viditel would mirror the structure of the Dutch Press itself.

This is one way of getting receiver set, for every 50 pages that the IP books. newspapers as a whole to take an interest in viewdata developments, and of making sure that they make a coherent contribution to it. On the other hand, many fear that the users will be confused by the welter of different newspaper titles that they will be confronted with on the screen.

Holland will therefore be the testing ground of several unusual features of viewdata that need not be unusual if they work. There is great interest in viewdata in Holland, as witnessed by conferences and seminars, and both the money and the motivation to make it

R.W.

# Canada divided over the way to advance

CANADA, which has on the UK there is the equally relevant through its research laboratories also stocks several different trials of question of whether it is the has sponsored the development B viewdata, notably in Toronto, Manitoba and Alberta, is the cradle of two quite distinctive theories about the purpose and direction of viewdata develop-ment. One is that high quality graphics are of central importance to public acceptance. The other is that viewdata is not primarily an information medium, but a functional medium for practical applications like monitoring burglar electricity meters, central heating and other items of domestic management. Information as such is a secondary

use, if it exists at all. It is fair to add that this view is largely possible because in many cases viewdata will operate across cable networks rather than the ordinary switched telephone network

But the question of what will finally establish viewdata in the minds of the public as a useful adjunct to their lives, is of quest world-wide significance. In the The

services and answer back to the present does, and therefore computer with messages and memoranda for other people, in a version of electronic mail.

## Prominent

example, inter-active features, like quizzing your bank account or ordering a train ticket, also figure prominently. This may in part he the reason why the French and the Canadians have sought an alliance in viewdata

development. Equally interesting is the question of the role of graphics. since local intelligence can be The Canadian Government used for many other purposes,

genuinely inter-active features of a highly sophisticated of Prestel that will really make graphics system on viewdata, it popular in due course—that known under the name of Telis, the active use of the response is, the active use of the response don. Basically, this splits the frame mechanism whereby TV screen into far more separ-prople can order goods and ate components than Prestel at

It is, in effect, the only truly Thus the Canadian concept is pictorial viewdata system in no more than an extension of existence at the moment, since this broad question about view-data, and it is notable that in less restricted to geometrical the French Teletel trial, for and near-geometrical shapes and approximations. The Canadians achieve this effect, in part, by building intelligence into the terminal itself, thus enabling it to interpret a far larger quantity of pictorial instructions. Having intelligence in the terminal is of course also a major step for-ward in viewdata development.

But it does make Telidon more expensive, indeed considerably more expensive. It is a question of the trade-off, in the public's mind and purse, between sophistication and expense. It is also fair to add that Telidon has yet to be tried out on a large scale. The big-gest Telidon trial so far planned will be the Vista project in Toronto and Montreal, run by the Bell Canada telephone com-

pany. This is due to start in about nine months' time, with perhaps 500 terminals. The Alberta trial, under the name of Vidon, is to start with 100 terminals, and will rely on a dedicated cable network using a packet switching style of transmission. Manitoba has, in fact, two projects under way. Project Ida in Winnipeg, again using cable, and another experiment in the town of Elie using fibre optic links.

also been announced in New

Brunswick, called Project Merminent newspaper companies, cury, with about 30 terminals Southam and Torstar, have rotating round 75 homes and businesses. The range of services offered on this experiment are said to include fire and burglar alarms, medical alert, energy management and automatic telephone testing.

## More trials

It seems likely that more trials will be announced in due course in the various states of Canada, making at least half a dozen viewdata experiments, largely using Tekidon and with a heavy emphasis on these various practical functions, but also with heavy reliance on cable or other high-grade links. Thus, much should be learned about a substantially different line of viewdata development, although the trials in themselves are small scale and late compared to this week's public launch of Prestel with well over 2,000 ter-Lately, a new experiment has minals already out in the field.

trast to the comparative lack of interest south of the border in With extensive oil revenues to draw on in at least some states, and new housing and office developments into which new systems of communication can be built, like fibre optics and cable, there is clearly an opportunity for Canada to explore avenues largely denied to the UK. On the other hand,

formed a company to exploit viewdata jointly. With other companies also interested there

should be no shortage of infor-

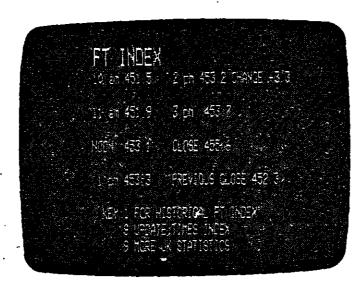
mation provision to get the

various projects going. This level of activity is in some con-

what is proved or disproved in Canada, with its particular cir-cumstances, may not have all that relevance to much of Europe, with its different technical and economic structure.

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# Society on the brink of change

BY THE end of the century it is quite possible that viewdata will be so enmeshed with everyday living that people will wonder innocently how we ever did without it. Indeed, it is not silly to speculate whether, in retrospect, viewdata will be seen to be as significant an invention as Caxton's development of

Electronic publishing is not expected to replace all conventional printing, at least not in the foreseeable future, because it is unlikely that people will choose to read a novel or evena lengthy article by watching flickering characters on a tele-

On the other hand, a very wide range of information services and advertisements could soon start to forsake the traditional printed media in favour of electronic means of dissemi-nation. Classified advertisements, for example, would appear to be well suited to viewdata systems, and eventually it would be possible, in theory at least, to transmit whole newspapers by electronic means. Subscribers could either read them on a screen or, more likely, have the sections they require printed out on private teleprinter attached to the tele-

The technical advantages of electronic publishing are considerable. The first is speed and flexibility. It would be feasible, for example, to flash a classified advertisement on to screens in all or part of the country only a few minutes after a customer had telephoned the advertise-

Another important advantage

of viewdata systems over con-ventional publishing is that they allow two-way communication.
A subscriber can use his remotecontrol keypad to send back in-formation to the system in the form of "yes" or "no" answers to questions or numerals. Eventually the addition of type-writer-style keyboards will allow users to send quite sophisticated messages back to the viewdata computer. Already it is techni-cally possible for people to make purchases through viewdata by keying in their credit card numbers in response to an advertisement.

## Direct response

This idea could no doubt be extended so that people could make airline, rail and hotel bookings from their desks or armchairs and perhaps even respond directly to some types of private classified advertise-ment. By this means the convenience and speed which are taken for granted in airline booking systems could be extended to a wide range of more ordinary transactions.

These immediate advantages of electronic publishing should be compounded by the general trends of computer and telecom-munications technologies which should enable information to be assembled, organised and dis-played with greater and greater sophistication and quality. Since all the information on a view-data system is stored in a computer, it should be possible to devise methods for reorganising the same information in a large number of different ways, which are not possible with printed

One obvious example would building be a system for organising relayed classified advertisements accordinational ing to the wishes of a customer.

A househunter, for example, might tell the system that he wanted a three bedroom modern house with a garden for less than £40,000 within 20 miles of Shrewsbury. The computer would list any such houses that were in its memory.

The British Post Office's Prestel system is not organised at present to provide this degree of flexibility, but there is little doubt that Prestel or other viewdata systems will be able to provide this type of service before long.

Prestel can, however, already be used for providing tailor made travel information if it is hooked up to a minicomputer in a travel agent's office.

Since small home computers Since small home computers can already be bought for as little as £500, it is not fanciful to believe that viewdata systems will rapidly evolve from being information services to being networks of living room computers attached to an extremely large central to an extremely large central warehouse of information and programmes.

It is then a small step to foresee that the major banks, building societies and other institutions will linked into the system to pro-vide rapid detailed and sophisticated transactions with millions of home and small office computers. Statements and invoices could be sent to customers via the system, especially if the home computers were equipped with simple printing devices. Then instructions to the bank of

society could direct using national network.

Home computers could also be used for a range of educational and lelsure pursuits by taking data and programmes from a national library. It is even possible that sophisticated programmes for medical diagnosis or legal advice could be relayed from the central library over the viewdata link library over the viewdata link into a home computer.

## Large capacity

wonder

Sceptics

whether enough people will want to have computers in their living rooms or offices to make these ideas workable. However, the advance of microelectronics technology has been so rapid that the processing section of a quite powerful computer can already be etched onto a chip of tion. Each silicon a few millimetres square. newspaper facturers will be offering television sets which are not only and memory capacity. These sets need be no larger and not much more expensive in real terms than ordinary colour sets were memories will at first be quite expensive, but will clearly come down in price as they start to become mass-produced.

Mass production is indeed the

key to the development of Prestel and other viewdata systems.

number of users to amortise the but of capital costs of establishing a network of viewdata computers.

the more dependent on the system achieving a large number of subscribers since their revenue is directly proportional to the frequency with which their information is inspected. Set makers most of all are locked into the problems of how to generate the high demand for prestel sets which will enable them to price the sets for a them to price the sets for a mass market.

These are the inevitable diffi-culties of launching a new and quite unfamiliar system. How-ever, once a take-off has been achieved, beyond, say, about 1m users it seems likely that the system could become rapidly heaper and more competitive than more traditional media.

For, unlike a newspaper or magazine, viewdata will incur very small incremental running costs as it expands its circulation. Each additional copy of a contract of the contrac expenditure on newsprint, ink and transport. However, the cost of sending electronic equipped to receive Prestel, but information to an extra sub-have considerable computing scriber is relatively small. establishing a computer net-work is likely to remain stable when they first appeared on the market. Optional extras like printers and magnetic disc computer information are likely to continue to fall as a result of technological advance.

The future of viewdata as a mass information system closely interweaved in the fabric of society, and probably altering many people's way of living revolves, therefore not so much The Post Office needs a large round a question of "whether?"

Max Wilkinson

## PROFILE: SAM FEDIDA

# Post Office's guiding light for 10 years

Fedida will probably be called broadcasting companies agreed and domestic users. The less "the father of Prestel." just as to work out common standards were becoming anxious that

emusiastic about viewuate, turers Association, which repre-even though it is about 10 sented the television set makers, but the marketing years since the idea was con- was also consulted. consultant to Aregon — the subsidiary, originally called Insac Viewdata-he continues to help promote Prestel's PO and several papers were use, especially overseas, to win presented. The group even took valuable exports for the UK.

1938 to study for a degree in telecommunications at Imperial College, having won a royal scholarship. As soon as his course was ended, he was drafted into the RAF as a radar officer. After being "demobbed" in 1947, he then iniaed Marconi and was bused 1.1 Cheimsford.

By 1065 he had arpired to an assistant Greetor of research at darconi but left in 1970 to join the Post Office which was interested in applying computers more effectively in research such as in automating experiments.

His objective at the Post Office was to improve engineers' relationships with computing so with the heads of the various research departments at Martlesnam to discover what facilities they required, so that the system count he designed to suit the user rather than the other way

An enthusiastic response came from the head of the research department involved with the PO's viewphone system. He felt that viewphone-which allows people to see and hear the subscriber at the other end of the telephone-could be improved by extending the service so that subscribers could also receive written data through the special viewphone

network.
Mr. Fedida considered the idea of putting information on the viewphone would be too limiting—because of the small audience and the expense of the system. He then began formulating ideas about a cheaper mass - information system, using the country's extensive telephone network. Prestel, but in the early days

it was called viewdata.

Mr. Fedida spent 18 months working out how a system could work, its specification and how to produce economically the software, i.e., the programmes used by the computer. He had to cut down the cost of conven-tional software by a factor of 10. His proposals were ready by early 1973 and by then he had four researchers working on the project with him. By then, the PO had become

aware of the work which was being carried out by the BBC and the IBA on teletext, which was being developed to provide a broadcast public information

In 1974, the PO and the of possible services for business today we think of Marconi as for both systems so that any the father of radio, and television set could receive would not have the rapid growth same format. The British Radio pated vecause no one had Mr. Fedida is still very Electrical and Allied Manufac- scarted mass production of

By the end of 1974, the PO project team were ready to show working systems various other groups within the presented. The group even took some equipment to West Ger-Mr. Fedida was born in many—the PO there had shown Egypt, but came to Britain in interest in the system before a working demonstration was The demonstration possible. was impressive, since Mr. Fedida was able to show that distance was no problem-the computer was in London and telephone call was all that was required to lie up a tilevision set in West German' to the pr tottipe view inta system.

## 1mpressed

The Germans were impressed -they were the first to buy the system from the Post Office. The following September, the

PO was ready to show Prestel — then still under the name, Viewdata - to the world. A public demonstration was held at London's Heathrow Hotel. Afterwards, a working party was set up within the PO to see how the system could be developed: a market strategy was planned and a pliot trial was begun in January, 1976, to assess the reaction of potential users and the people who would ultimately provided information for the system.

The PO had decided that its role in the system would be to provide the medium for com-munications and would seek no control in the type of informa-tion which was stored on the computer. It would continue the policy to act as a "common carrier," since the PO had no interest in setting up new departments which would have to monitor the information which was being sold on Prestel.

During 1976, discussion continued about the standards required to produce the television sets to allow them to receive Prestel and the two teletext systems, Ceefax and Oracle. There were delays, inevitably, since there were many technical questions to be answered turers carefully co-ordinated. manufacturers, who would have to supply the special integrated circuits for the systems, were trying to mass-produce the circuits and changes in specifications also led to more delays. From the few television sets

that were available-mainly in the hands of the information providers and the set and component manufacturers experi-ence was being gained on the shortcomings of the system, from the user's point of view. The information providers (IPs) were considering a vast array

but the marketing of Prestel by the PU was continued outside the country. The U.S. and the wetherlands were among the ursi countries to see the poten-tial of the system. In 1977, the National Enterprise Board set up a subsidiary, called Insac, with the intention of selling British expertise in writing computer programs - software -It also took the marketing of Prestel under its

In February, 1978, Mr. Fedida joined Insac—now Aregon—as a consultant. He would have slau to retire from the Post timee, anyway, on his 60th birthcay that May, so he took the opportunity of continuing to work with the system helping other countries to formulate policies and services.
He bedeves that viewdata is

only in its infancy and that there are applications which we have so far not contemplated. It will take at least 20 years for viewdata to become a part of the social infrastructure, because present generations tend to regard anything associated with the computer to be a rival as far as jobs are concerned. Mr. Fedida envisages that

Prestel will eventually be just one of several viewdata systems operated in the country, all accessible via the telephone system, all of which will be simple enough for a child to At the moment, Mr. Fedida

thinks that Prestel " is not free enough and is too tied to the PO paternal strings." Once freed, viewdata will be limited only by the designer's and the user's imagination. E.W.

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This service is presently available from Derwent.

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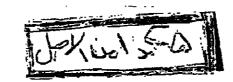
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# **EUROPES** AGRICULTURE

MEXT WEEK, EEC Heads of Covernment meet in Brussels to discuss Britain's demands for big cut in its net contribution to the EEC budget. This is now expected substantially to exceed 1.8bn European Currency Units (£1.1bn) this year-much more than is paid by any other member state. Its dispropor-tionate size—Britain is the third noorest EEC member—is largely due to the Common Agricultural Policy. The non-budgetary cost of the CAP to the UK is estimated to be just as great again.

"The CAP is inefficient, exbavagant and about to collapse under its own weight. The whole thing is getting absurd and it can't go on." Yanks, Aussies, Italians and Brits say it, even Chancellor Helmut Schmidt says it (as Cole Porter might have sung). Mr. Roy Jenkins his been saying it virtually since he became President of the Enropean Commission in 1977.

Their opponents rarely bother to contradict them. They don't need to. The big farming co-operatives, commodity graders and food processing companies which are the most immediate beneficiaries of the CAP are satisfied that it is not in the least absurd - nor, it seems, in any danger just yet might undermine their position.
... Critics of the CAP usually

# A plain man's guide to the CAP

CAP MONEY

- WHO GETS IT ?

Price subsidies

ECU 3-5936

Storage

(mostly to private)

ECB 1-427ba

ainly to manufacturers

ssers, some of

The wide gap between market prices distorts trade. producing huge resource transfers which never show up in the has to offer under those headbudget. (Recent estimates put ings. 1978 halance of payments losses resulting from the CAP at 1.25bn ECU for Italy, 1.2bn for the UK and 750m for Germany; gains at 1.1bn for the Netherlands, 950m for Denmark and 850m for France.)

 High prices stimulate production at uneconomic cost levels and depress consumption, so that consumers lose more from the CAP than producers gain. (The 1978 net loss to the Community is estimated at more than 6.3bn ECU.)

 Dumping surplus food disrupts world markets, which annoys competing producers such as the U.S. Australia and New Zealand, and retards agricultural development in the Third World.

## Peripheral

All these arguments have little impact on discussions between EEC governments in the Council of Ministers. Debate among Farm Ministers, for example, tends to be somewhat cruder, focusing all too often on butter exports to the USSR. threats to the British pinta, lamb wars, wine wars, or the number of cows a farmer may have before he is subject to a milk tax. It suits politicians to present the CAP in terms of what are often peripheral battles because these are easily understood by the electorateand easily won. They also provide an effective smokescreen of the sort of reform which for some of the real interests vested in the CAP.

The Commission likes the make some of the following CAP because it is the only major policy the Community Almost three-quarters of has and does much of the work the EEC budget is used to buy, of other policies, which have store or dump food surpluses failed to set off the ground. grown by farmers, who make Pumping money into the food up less than 8 per cent of the industry may be an inefficient EEC workforce.

employment but the CAP is ing of butter and skimmed milk high EEC prices and world probably a more effective social powder is a jackpot to private than anything the Community

> EEC Governments like the currencies (the CAP because it is a major force in preserving the present rural cularly the case in France, where President Giscard d'Estaing has a running battle with Gaullist leaders such as M. Michel Debre and M. Jacques Chirac for the hearts and minds of the farmers; and in Germany, where farmers have often given the impression that they control the Free Democrat Party through the formidable personality of Herr Josef Ertl, the Farm Minister, and that they sometimes come close to dictating Government

Governments also like the CAP because it enables them to make large financial transfers which, in the general climate of fiscal restraint and spending cuts, might be politically unacceptable if exposed to the scrutiny normally afforded national budgets.

Price support acts as a big hidden subsidy to manu-facturers of dairy equipment and other farm machinery, pro-ducers of chemical fertilisers, ducers of themical fertilisers, To begin with, equal prices pesticides and compound feeds, do not benefit farmers equally railways and private transport —big farmers with economies enterprises. Intervention buy-

PAYING FOR THE COMMON AGRICULTURAL POLICY

4,035 3,642 2,257 1,403 680 1,148 713

\* Estimates by the Institute of Fiscal Studies, February 1980

and regional development policy storage companies. Commodity traders make healthy profits speculating on the Community's export rebates and "green" exchange rates used to convert the supposedly common EEC voting patterns. This is parti- prices into national currencies, maintaining what in effect are different price levels within the Community. Each percentage point added in Brussels to farm support price strengthens political ties on a level remote from the farmer or the consumer.

## Guaranteed

These interests rarely surface because of the way CAP money is distributed through the guaranteed price mechanism. The CAP supports a minimum price for farm goods —sometimes six times higher than the world price—by taxing imports and buying up surpluses which are then stored or exported at subsidised prices. But even in the days before currency fluctuations led to the introduction of green rates, breaking the price unity of the Common Market, this system was less equitable than it

appeared.

Contribution to Effect on

£m in 1978

ones, who have less scope to if prices were cut. For years, expand their production. Moreover in most cases, EEC money case for higher prices on the does not actually so to the farmer. In the dairy and sugar sectors, the two biggest surport now swallows 95 per cent-pluses, the Community does not of farm spending. But they buy in until the raw product come out in their true colours been transformed into butter, skimmed milk powder or refined sugar. Cows have to be slaughtered and turned into cleaned carcases before they are acceptable as beef. Olive oil has to be refined. The Community deals with the manufacturer and the abattoir, which

£1 = 0-612 ECU

Except in the case of sugar, where the guarantee is limited by quotas and refiners must pay a minimum beet price, it is up to the farmer to negotiate his own sales price and get what he can from the manufacturer. Again, the big farmer or member of a big co-operative has the advantage.

pocket some of the payments to

cover processing costs.

guaranteed price system and would be the most obviously hit

basis of small farmers' needsso successfully that price supeach time the Commission tries to weaken the price mechanism and rely more on direct or indirect subsidies to small farmers. A prime example is the Commission's latest attempt to deal with the milk surplus by slapping a high tax on increased production, and exempting small farmers. As with similar cases in the past, ministers say the plan "protects inefficiency at the expense of the efficient

Withdrawals

(paid to farmers)

EGU -2996n

Export refunds

ECB 4-994bo

Commission figures EGU 10-314bn

like a lost cause. The CAP aims, so the Treaty of Rome tells us, "to increase agricultural productivity; to ensure a fair standard of living for the agricultural community: to stabilise markets; and to Small farmers do, neverthe- ensure the availability of supless, benefit visibly from the plies to consumers at reason-

Minister, in London.

producer" and it already looks

It has succeeded on the first more sensible if prices were

of Greece, Spain and Portugal into an inland sea.

On all the other counts, it has failed. The gap between high and low-income farmers has widened as a direct result of the CAP. Markets are hopelessly out of balance. Falling consumption indicates that many consumers do not consider food prices "reasonable." Have we, perhaps, been the victims of a confidence trick. founded on the blanket assumption that the CAP helps the farmer and that the farmer needs help? It does help the farmer, but it may help the middle man a lot more: last year nearly half the 10.3bn ECU spent on price support represented rebates paid to exporters and another 14 per cent went in storage costs. The farmer does need help, that is, the less efficient farmer. He may be a large-scale capital-intensive producer or, more commonly, a small full-time farmer with no

## Part-timers

or a job in industry.

chance of alternative production

holders are full-time and since these occupy two-thirds of the half their time on the farm and at least a third have other jobs. Moreover, the CAP is not the sole source of support-national governments between them spend almost twice as much on the farm sector as comes out of the EEC budget.

The guaranteed mechanism would begin to look

count. Productivity has shot up. lower, and if the Community So has the overall level of pro- were aiming for a streamlined. duction, so that we now produce efficient farm sector with pro-25 per cent more sugar than duction concentrated in low-cost we need and 20 per cent more regions. But changing to an milk, not to mention wine, beef efficient farming industry would and cereal surpluses, and an exacerbate unemployment and olive oil lake that the accession regional poverty, at least in the medium term, and the post-oil to the EEC promises to turn crisis recession in industry makes that politically impossible.

The simplest way around the problem would be to cut prices sharply and pay direct subsidies to the smaller farmers until they retired. The Commission has, in fact, suggested this from time to time. But this would eat into the profits of the big farmers, the co-operatives, food processors, traders and the many industries that service the farm sector. Not one government is prepared to risk the political consequences.

economic resulting from the CAP are not just a British problem. Italy and Germany, which also lose out heavily, can be expected to listen to the British case with some sympathy and interest. But close examination of who pays and who benefits would open Pandora's box and, at the end of the day, the Heads of Government are unlikely to be talking seriously about reforming the

They are more likely to be discussing ways of balancing the books over the next three or But only a third of EEC farm four years — adjusting the so-molders are full-time and since called "financial mechanism." creating a special fund for farmland, many of the small energy, transport and infra-farmers must be part-timers, structure projects in the UK. Most of these spend less than possibly totting up the interest subsidies for which Britain would be eligible if it joined the European Monetary System.

In return, the British Government may even concede a few percentage points on this year's farm price rises, the root of the problem. After all, three years is a long time to wait for reform.

Margaret van Hattem

## Letters to the Editor

## Engineers and specialists

From Mr. R. Davis Sir-It is unfortunate that your contributors of March 17, in criticising the narrow field of competence of engineers, demonstrate that they clearly suffer from the very same ail-It is clear, from the "The missing link in the engineers' armoury," that the authors have, at best, only a superficial knowledge of the normal engineering route from a research result to the finished, marketable product or service.

The store of knowledge required by any science-based professional for a complete command of the subject is so vast that, sadly, the day of the Brunels, Telfords and Stephen-sons is past. Today's generalist. in any profession, must be superficial in his treatment of a problem and must recruit experts as required. The GP doctor resorts to his consultants and the engineer manager to his technical specialists. The procedure is well established and is working well.

There is, no doubt, scope for improvement in the way this system works in engineering. in many cases, it would be very engineering specialists, i.e., accountants, marketing experts, etc., had sufficient engineering knowledge to appreciate the problems that their demands

available—designs and specifies for the lowest production cost and high availability and ease of maintenance often presents have both. The difficulty comes in explaining this to nonengineers. Perhaps our real shortcoming is an inadequate

command of the language.
I also think that the Finuiston report is an inadequate document but my reasons are not, I regret, those of your R, W. Davis. 'Rosebank,"

## In the context of business

Townfield Lane, Mollington, Chester.

From the Director, The Corporate Policy Group

Sir,-Like Brian Houlden and Terry Hill (March 17) I too was disappointed by the tenor of the Finniston report.

engineering profession was

inevitable given the Committee's

remit the wider context of the engineer as businessman would have been beneficial. Being a first class, competent able to appreciate business s and take tough decisions is quite I would have thought that the Rolls-Royce experience in which all but two of the ten sound simplistic - even trite -

board were engineers, would have been convincing.

graduate courses at Oxford and other Universities in which engineering, economics and management studies are combined is one feasible approach but more thought is certainly needed to come up with ways to create good engineers who also have the potential of ! sound businessmen.

The Corporate Policy Group

Nuffield College, Oxford.

## Broader topics

Sir,-The review of Finniston report (March 17), by Houlden and Hill, suggests that it does not emphasise adequately the need for engineers to have increased training in broader managerial tonics. This comment houses topics. This comment, however, is made in complete isolation from the breadth of training of others who achieve managerial status much more readily at

Their example of the engineer who moved successfully into the financial management of his company and on to technical director, perhaps indicates much nowledge to appreciate the more the fact that most roblems that their demands engineers do indeed already have a relatively good basic By definition, the good understanding of the whole ngineer—and there are many valiable—designs and specifies including financial (which after the control of the specifies and specifies are the control of the specifies are the control of the specifies and specifies are the control of the t the least complicated and least all really requires one to be numerate, which is a necessary lem. A very common difficulty is that the problem is in-adequately defined by coladequately defined by leagues or customers who lack engineer has to relate his work sufficient engineering apprecia to the real world from the start tion. Your contributors' call —as opposed to say the physicist who often has the freedom to define his own environment. An interesting question of relativity is: how environment. much additional training would the accountant need to become technical director?

What is perhaps equally relevant to the UK is the need to include engineering topics into the training courses of accoun-tants and others so that when they reach positions of management they will better understand the engineering implications of their decisions.

48. Ashley Road, Farnborough, Hants Selling the

## wares From Dr. S. Ahern

Sir,—I do very strongly agree with the spirit of Brian Holden and Terry Hills' article "The Missing Link" March 17. I believe however, that an-

Though the predominant other consideration is equally focus on education and the important in the examination of the role of engineer in contributing to managing a business. There needs to be a strong and real identification with the marketing strategy, and in particular engineers need to gain engineer is one thing. Being very early in their careers an appreciation of the contribution which each part of a business makes to the success or otherwise of marketing its wares. Briefly expressed this may

company including professional The development of underenrineers for removed from natual selling then the need for education and experience can be quite easily achieved.

Firmiston and many qualified entineers are over concerned · ith professionalism.

France

Italy '-lol!and

Pramark

Mr. S. A. Ahern A. et a Associates. 1976: Duarry Street. Guildford Surrey.

## **Productivity** management

Sir.—I find myself agreeing in much of the content of issrs. Houlden and Hill's icle on the Pinniston report. The report should mainly almed

engineering role in design and development and acceptance of the main philosophy should lead to an improvement in engineering in these areas. I am, however, very concerned at the over early segregation of the "high flying" M.Eng. from the main stream B.Eng. The report, however, does not to me confidence of sider clearly the problems of engineers in the vital production function. Senior executives in marufacturing firms do not have to be engineers but in com-parison with our successful competitors in Europe and the Far East it is obvious that we would benefit considerably by having more engineers senior executive positions and on boards (there could also be advantages in non-executive directors having this type of

background). I do not however fully agree with Messrs. Houlden and Hill all production management topics are best incorporated at the undergraduate stage. The main requirement of an undergraduate course should be to produce an effective engineer with a good enough technical background for him to perform adequately in industry. It is not to produce a generalist with little depth of to be technical in say production control, production engineering, quality control etc. if he is placed in the manufactur-ing function. In my experience graduates do not make effective first line managers straight out of university and should not be used immediately in such roles. Some management topics such as accounting, quality control, industrial engineering etc. can. given time, be successfully included in an undergraduate course, but most aspects of man management can only be effectively understood after some experience in industry and are not suitable for teaching at the undergraduate level. Such topics are, I believe, best dealt with in postgraduate courses and in this connection I would cite the successful Engineering Industry

managers by the right com-bination of teaching and Finniston is right in advocating continuing formation executive directors on the main to me it is fundamental; and and I believe that management

Training Board fellowship in

manufacturing management scheme which has shown that

engineers in their middle

board and all but one of the where there is a real under-topics are better dealt with in 22 people on the Derby division standing and concern for this way than trying to do it all marketing among those in the at the undergraduate stage. Professor B. B. Hundy. School of Production Studies, Cranfield Institute of Technology,

## **Selling APTs** abroad

From the Vice-Chairman, British Railways Board

Sir -In view of your Science Correspondent's report (March on the results of the enquiry by an Advisory Council for Applied Science & Development working party. I would like to comment on the export potential of the advanced passenger train (APT).

Apart from the train profile which has been designed to operate within Britain's very restrictive loading gauge—the smallest of any standard gauge railway—the advanced passen-ger train is perfectly suitable for export.

Although its sleek, aerodynamic shape is of major importance in reducing drag, especially when running at high speed, the key to the APT's excellent overall performance lies in its revolutionary new suspension system which, as well as giving smooth riding even on poor quality track, enables the train to take curves 20-40 per cent faster than conventional trains. Thus considerably reduced journey times can be achieved without costly alterations to the track and signalling or the need to build new high speed routes—the very expensive solution to the reduction in journey time being adopted elsewhere in the world. Together with a controlled coach tilting system to provide passenger comfort when the train is cornering at high speed. it is the APT's suspension and bogie system and its other technical innovations that offer the most exciting prospects for

export. But there is no problem in incorporating all or any of the technical features of the APT expertise in any topic. His role in trains to run on standard for the first few years is likely gauge railways anywhere in the gauge railways anywhere in the world.

Having said that, however. I believe we would be deceiving ourselves if we thought that because we in Britain have the most advanced train suspension system in the world, we could sell APTs throughout the world. Nevertheless, wherever sales potential can be identified, British Rail Engineering is prepared to be as aggressive and competitive as any other company husiness. But it is a fact of life that most countries in which high speed rail transport is being planned have their own manufacturing resources and they are hardly likely to be interested in buying complete trains while their own factories are under-used.

But I do firmly believe that many of them would want to build their own APTs incorporating BR's suspension and tilt systems. So I rate the twenties can be converted into prospects of selling our know-very successful manufacturing how and licensing agreements for technology rather more highly than exporting complete trains as built for BR's limited route gauge. We have plenty of evidence to support this. In conclusion, may I say that

I welcome the working party's

findings. British Rail already has strong links in research and development with private industry in traction, rolling signalling and track, from which both are benefiting. This kind of joint endeavour between the public and private sectors of Britain's railway industry can only be to Britain's advantage, especially in the promotion of valuable exports. I. M. Campbell,

British Railways Board PO Box 100, Euston Square, NWI

## Marketing push needed

From the Managing Director, D. P. Sanders (Industrial)

Sir,-Once again British tecknology has produced a saleable engineering product in the form of the advanced passenger train, which is going into service this summer, and even before this is actually in operation we are informed that Britain has little or no chance of exporting this latest development which has been widely accepted as a magnificent piece of engineering. This attitude immediately depresses marketing initiative.

The report (March 18) issued by the Advisory Council for Applied Research and Development (ACARD) suggests that the technical competitiveness of British products in world markets would be greater if state owned companies relied more on their suppliers and other research contractors, and less on " in house " research. goes on to observe that half of the research and development in Britain is carried out in the public sector and urges the Government to encourage public sector purchasers to find ways jointly of planning and controlling research and development programmes. This goes some way to improve the simation, but could it not on further and extend its meenrabe into adapting the technology to fit wider international needs?

British Rail and the Ministry Transport have spent £10m on research and development for this advanced train, and a further £25m for the production of three prototype units; and this is now to be followed by a further contribution from the EEC to cover the manufacture of more rolling stock.

The technical specification of the APT, is no doubt consider ably ahead of all world competi tion, one of the prime factors being that the suspension is designed to cause much less wear and tear on the track which has always been a problem with high speed trains, thus it is a most significant factor.

Without wishing to minimise the problems, or over-simplify the matter surely it would be very refreshing to hear of an enthusiastic marketing team ready to go anywhere in the world to extol the virtues of this technology. Such a team could comprise the most suitable people in both the private and public sectors of the relevant industries.

Is it not about time that British industry has a psychological boost instead of the negative and apathetic trend that exists at the present time. Denis P. Sanders. Triumoh House,

## **Today's Events**

UK: Lord Carrington, Foreign Secretary, meets Dr. Christoph (to March 25). Jewelley and Silver Exhibi-tion, Goldsmiths' Hall, London Van Der Klaaw, Dutch Foreign (to March 27).

Overseas: Lord Soames, British Mr. James Prior, Employment Secretary, meets steel unions.

Mr. Timothy Raison, Home

Governor of Rhodesia, meets President Samora Machel in Minister, addresses British Council for Aid to Refugees annual meeting, London. Sir Harold Wilson, chairman European Parliament special session opens on budget and

of Interim Action Committee on Film Industry, presents third agriculture prices, Strasbourg (to March 26). Mr. Francis Pym, Defence ecretary, visits China (to Two-day conference opens on Secretary. world oil supply and price—the impact on Europe, London,

Mr. Wilfrid Martens, Belgian Secondary Head Teachers' Prime Minister, meets A sociation conference, Oxford Adolfo Suarez, Spanish Prime

Minister, in Madrid. PARLIAMENTARY BUSINESS House of Commons: Transport Bill, remaining stages. Mineworkers' Pension Scheme and Redundant Mineworkers' Con-cessionary Coal (Payments Scheme) Orders, Debate on EEC

budgetary questions.

House of Lords: Education Bill, report. Consular Fees Bill. second reading. OFFICIAL STATISTICS

documents on convergence and

National income and expendi-ture in the fourth quarter and year 1979. Retail (February—provisional). CCMPANY MEETINGS See Financial Diary on Page 6.



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# National Westminster sees slower rate of growth for domestic side

THE current year will not be an easy one for the domestic operations of NATIONAL WEST-MINSTER BANK, Mr. Robin Leigh-Pemberton, chairman, tells members in his annual

Although there is considerable uncertainty about the future demand for lending and the level of interest rates, the group expects to see a slower rate of growth in advances and current account balances than in the last

tributed some 22 per cent in 1979—over f100m in sterling director received 296.18.

Initial emoluments of directors came to 1967.

Initial emoluments of chairman's rose from \$43.345.

Initial emoluments of the against t770,000 previously: the chairman's rose from \$43.345.

Initial emoluments of the against t770,000 previously: the chairman's rose from \$43.345.

Initial emoluments of the chairman's rose from \$43.345.

Initial emo Moreover, when interest rates eventually start to fall our earlings will be adversely affected."

second half

recovery

**EGARD MEETINGS** 

**FUTURE DATES** 

The following companies have notified does of Board meetings to the Stock Exchange. Such meetings are usually hold for the purpose of considering dividends. Official indications are not available as to whether dividends are interims or finals and the sub-divisions shown below are based mainly on last year's timutable.

Intenms: C. H. Beazer, British Car Auction, Chembers and Foreus, A. & J. Nucklow Palerson Zochanis Scotlish Cities Investment Trust.

in the current year, the chairman says that underlying business expansion remains strong, and the outlook for the sector is encouraging.

Rapidly increasing techno-

Interims—
A B Electronic Products ..... Mar 26 Products Mar 20 encouraged in the group's business operation,

Mar 31 encouraged in the group's business operation,

Mar 31 encouraged in the group's business operation,

and the development of services

to customers.

The balance sheet shows customers' and other accounts of £19.74bn (£15.15bn)—current, deposit and other accounts totalled £26.54bn (£20.23bn).

# set to consolidate

Company fell from £337.644 to £268,967 in the year to December 31, 1979 from turnover lower at reasonable, but good growth has been inc should come in the second six 50 per cent £6.91m against £7.28m. After a tax credit of £99,398 (£55,177 charge) profits came out at annual review.
£368,365 (£282,467). The current

Budget accounts have been introduced for customers and

the directors expect a strong demand for the group's range of

leisurewear, comping equipment and motorcycle accessories.

As reported on March 7, des-

nite a £37,000 downturn in the

second half, taxable profits for

the year ended October 31, 1979.

The first half figures were adversely affected by the road haulage dispute and a depressed new branch openings towards market, but the anticipated second half improvement was borne out with pre-tax profits improving from £136,441 to

The final dividend is up from 1.694p to 2.50, making the total 3.3p (2.4345). Dividends take £90.047 (£63.089) and after an evirantdinar; debit last time of £87,994, available profit emerges at £275,319 (£131,384).

## APPLEYARD

Differences have been resolved between Mr. K. D. Fraser, a increased from £1m to £1.05m, former deputy chairman of on turnover up £5m at £16.6m.

at on his claim for compensation branches at Hammersmith, Kil- £376,000. arising out of his resignation burn and Wolverhampton have executive appointments with Appleyard last September, more modern premises, and were 1.11p (0.13p).

The following are points from

During 1979 total assets increased by a record £632 million to £3,935 million

(+19.1%). At the year end reserves had

Record investment receipts in 1979

risen to £127 million. Since then the

Society's assets have grown to over

£4,000 million.

of £1.834 million.

Sir Herbert's speech:

Greenfields Leisure should be retail sales area of the group has been increased by more than

mentls, Mr Richard Greenfield. Balance sheet shows fixed chairman, tells members in his assets of £5.63m (£3.2m) but net The current year will be one compared with current assets of £1.55m—bank loans and over-drafts rose from £799,000 to new branch openings towards £4.13m. the end of 1980—there were a total of 73 at year-end against 52 "I am confident that we are building on firm foundations for

## **Berry Trust** advances to £302.690

PRE-TAX INCOME at the Berry Trust Company for the six months to February 29, 1980, advanced from £32,370 to £302,690, and the board predicts a single dividend of not less than 1.25p, the same as last year, for the year to August 31. The tax charge came Appleyard Group of Companies. The dividend is raised to 2.15p £132,244 compared with £12.511. and the board. (1.93449p) with a final of 1.31p. In the last full year the tax A settlement has been arrived. Mr. Greenfield says that charge was £164,000 on profit of

# improves mid-term

After tax of £71,000 (£86,000),

Despite rising costs, pre-tax

As foreseen, a proportion of the increased costs can be attributed to the successful recruitment drive by the group's financial training division, say

time—have reduced the profit-ability of the leasing and hire purchase side, they add. But fixed term business written at current rates will seem attractive

the available surplus is £191.000 (£143.000). The interim dividend from pre-tax profits of £675.000.

(1934:9p) with a final of 1.3tp. In the last full year the tax Stated earnings of 3.3p (3p) reMr. Greenfield says that charge was £164,000 on profit of flect an increase in capital following last April's rights burn and Wolverhampton have been transferred to larger and were 1.1m (0.13m). Earnings of its option to acquire 500,000

profits of Park Place Investments rose £33,000 to £262,000 in the Balance sheet shows fixed six months to December 31, 1979, assets of £5.63m (£3.2m) but net Turnover advanced to £1.75m current liabilities of £185.000 against £1.24m.

Higher interest charges—up from £43,000 to £73,000 this when interest rates decline.

is lifted from 1p to 1.25p—last year a total of 2.Sp was paid

# arecordvear for Nationwide and assets now exceed £4,000 million?

Sir Herbert Ashworth, Chairman of Nationwide Building Society, addressed the Annual General Meeting of members of the Society in London on Friday 21st March.

Record mortgage advances in 1979 of £866 million.

About half the 67,000 loans made in the year were to first time buyers and about a quarter to people buying property over 50 years old.

• Nearly 21/2 million people now keep their savings safe with Nationwide.



Please call in at any of our 900 branches or agency branches for your free copy of our 1979 Report and details of our services for investors and borrowers.

**Building Society** 

Head Office:New Oxford House, High Holborn, London WC1V 6PW.
Funds exceed £4,000 million, Authorised for investment by trustees. Member of the Building Societies Association.

## **Jamesons Chocolates** static at £516,000

ALMOST UNCHANGED pre-tax profits of £516,522 compared with £516,302 are reported by Jamesons Chocolates for 1979, on turnover little changed at £6.7m against £6.9m.

£6.7m against £6.9m.

A final dividend of 3p brings the tofal to 4p (3.634p)

Net profit of £330,140 (£255,256) was after a tax charge of £186,382 (£261,046).

Earnings per 10p share came to 12.7p compared with 9.8p last time.

## Williams & James tax benefit

A FALL in pre-tax profits from £781.305 to £482,110 is reported by Williams and James (Engineers) for 1979 but is struck before a tax credit of £230,336 against the previous year's £121.708 charge.

Profits in the first six months had improved from £351,510 to £478,270 but the directors said that while medium term results economic conditions were harm ing the group's order book, which could result in some reduction in progress in 1980. Stated earnings per share at the year-end were maintained at

35.8p (35.9p). The final dividend is held at 2.569p making a total of 3.724p compared with 3.6745 Turnover amuonted to £7.25m

## Another good year at Costain Australia

Earnings at Costain Australia, the construction, mining and property group, advanced 7.5 per cent from AS3.2m to AS3.4m in 1979 and the company has raised the dividend from 8 cents a share to 9 cents. It was the eleventh succes-

sive increase in profit for Costain, which is 75 per cent owned by Richard Costain of the UK.

The directors say that all divisions except the Victorian housing and lands division operated satisfactorily. The industrial relations scene has improved in Victoria and it is hoped that this will promote an upturn in the volume of work SUBSTANTIAL increases in its scale of terminal bonuses for

Fornings per share are 19 cents compared with 18.8 cents

mation Service appearing in the

Gas). Viners (Industrials).

# **BIDS AND DEALS**

steel drop forgers of Oldbury and Stourbridge in the West

and Midland as at July 31, 1979, amounted to some £1.3m and its amounted to some £1.3m and its profit before tax for that year was some £229,000. After taking into account transfers of £650,000 made by British and Midland to its parent company after July 31. its net tangible assets now total £750,000.

Hill and Smith considers that

advertisement is issued in compliance with the requirements of the Council of The Stock Exchange

## LEIGH INTERESTS LIMITED

Issue of £2,527,608 10 per cent Convertible Unsecured Loan Stock 1984/85

at par

The Council of The Stock Exchange has admitted the above Stock to the Official List Particulars of the Stock are available in the statistical service of Extel Statistical Services Limited, and copies of such particulars may be obtained during normal business hours on any weekday (Saturdays and public holidays excepted) up to and including lith April, 1980 from:

KLEINWORT, BENSON LIMITED. 20 Fenchurch Street, London EC3P 3DB and from SHEPPARDS and CHASE,

Clements House, Gresham Street, London EC2V 7AV

# CRA builds up stake in Hail Creek coal

ing a deal with AAR, a subsidiary of CSR.

IOL will purchase 10 per cent of the coal deposit from AAR in exchange for a package including AS4.2m (£2.05m) in cash and various energy and mineral interests. The deal is subject to all necessary Government approvals. approvals.

In addition CSR is to purchase from IOL 3.27m AAR shares at a price of A85.25 a share, which a price of AS\$.25 a share, which will bring CSR's holding in AAR to 97.5 per cent. The share deal is contingent upon the completion of the exchange of assets between AAR and IOL. Under the terms of the Hail Creek agreement AAR will acquire IOL's interests in the Theodore Targoom and Yarrabee Theodore, Taroom and Yarrabee coal prospects, the Honeymoon

uranium prospect and a number of petroleum and mineral exploration areas.

Bond Corporation and Pacific 11 to 205p ahea

IOL will retain its 15 per cent Copper Mines—the latter a share acquisition.

which owns and operates the Roma to Brisbane gas pipeline and its interest in the Westmor-

and its interest in the Westmor-land uranium prospect.
Following the deal with IOL AAR's holding in Hail Creek will be reduced to 44 per cent. Esso Exploration holds 25 per cent, Marubeni Coal 4 per cent and Sumisho Coal Development.

## Bond buys into Pacific Copper

Australia's Bond Corporation has acquired a 19.9 per cent hold-ing in Pacific Copper Limited from Cousolidated Press Hold-ings for an undisclosed sum. ings for an undisclosed sum. at a profit of £1.5m. Shares of A joint announcement from Pacific Copper Limited moved up Bond Corporation and Pacific 11 to 205p ahead of the Bond

IOL PETROLEUM, a whollyowned unit of Australia's
conzinc Riotinto group, is to
increase its holding in the Hail
Creek coking coal deposit to 25
per cent from 15 per cent following a deal with AAR, a subsidiary
of CSR.

Canadian company based in
Edmonton with a substantial
share holding in Pacific Copper
that taken place between Mr.
had taken place between Mr. Aian sond, engirman of Schol Corporation and Mr. C. D. Stewart, president of Pacific Copper Mines, and that Mr. Stewart's company welcomed the participation of Bond Corpora-

Mr. Stewart has agreed to support the appointment of Mr. Bond to the Board of Pacific Copper Limited.

The statement added that Boad Corporation does not intend to increase its shareholding at this juncture but regards it as a long-

term investment.

The Bond purchase is the latest in a number of share deals over the past year which have proved extremely profitable for

the group. Most recently Bond sold its 1.36m shareholding in Hampton Areas to National Carbonising 

## Approval given for Mitsubishi to lift its interest in White

THE Australian Government has to increase its equity to 25 per group, permission to lift its equity to 25 per cent in the New South Wales coal and construction group, White Industries, which last month was the centre of a spectacular sharemarket contest reports. James Forth its interest to increase its equity to 25 per approach to increase its equity to 25 per cent more approach to increase its equity to 25 per cent more approach to increase its equity to 25 per cent more approach to increase its equity to 25 per cent more approach to increase its equity to 25 per cent more approach to increase its equity to 25 per cent more approach to increase its equity to 25 per cent in the increase its increase its equity to 25 per cent more appr of a spectacular sharemarket contest, reports James Forth from Sydney.

The approval is a setback for Mr. Alan Bond, the Perth businessman who, with the apparent support of Consolidated Press Holdings, headed by Mr. Kerry Packer, has been seeking to wrest control of the company.

The White family hold 22 per cent and a staff share scheme 5 per cent Mitsubishi, which previously held 8.3 per cent, lifted its stake to just under the 15 per cent level during the share battle. It could go no further without the approval of the Foreign Investment Review

The Treasurer, Mr. John Howard, said that approval was given so that Mitsubishi could "attempt to preserve the exist-ing control of White Industries

and the partnership arrange-ments that exist between the two companies."
In addition to its White equity, Mitsubishi owns 40 per cent of White's major asset, the proposed 4m tonnes a year Ulan steaming coal mine.

**ROUND-UP** 

Australia is being pursued with

New Central Witwatersrand Areas, an investment company in the Anglo American Corporation of South Africa group, had net profits in the six months to February of R129,011 (£72,650) compared with R91,603 in the same period of 1978-79. The (5.6p), against last year's interim of 7.5 cents and a total distribu-

tion for the year of 31 cents.

\*
South African gold production in February was steady at 1.843m ozs, compared with 1.808m ozs ROUND-UP in January this year. In the first The hunt for minerals in two months of 1980, output was 3.651m ozs, slightly down from Board. increasing vigour. Exploration the 3.676m ozs produced in the Mitsubishi sought permission spending is expected to reach same period of 1979.

## **Co-op Insurance bonus increase**

reversionary bonus rates for policies which become death or-1979 and more modest rises in maturity claims from April 1, the current rates of terminal 1980. The scale for the ordinary bonus have been declared by the section now varies from £14 per Co-operative Insurance Society. cent after 10 years, and 50.5 per a leading home service insurance cent after 20 years to a maxi-

cent arter 20 years to a maximum of 107 per cent for contract in force 50 or more years, rate for assurances in the ordinary section is £4.50 per cent to per cent in 1978, while for maximum Service appearing in the section the scale rises to a maximum of 107 per cent for contracts in force 50 or more years, the rates being applied to the sum assured. The previous scale ranged from 13.6 per cent to per cent in 1978, while for annuities, the rate is lifted from section the scale rises to a ma'ion Service appearing in the Financial Times:—
Itoh (C.) (Section: World Merkets—Japan).
Silkolene Lubricants (Oil and Gas).
Viners (Industrials)

The Society has also lifted its

# Hill & Smith expands its drop-forging side

For a consideration of £350,000 —Harper Investments, following cash. Hill and Smith has acquired the disposal on March 10, 1980, British and Midland Stamplugs, of 100,000 shares.

Midlands.
Net tangible assets of British

the acquisition (from Central Manufacturing and Trading Group) will lead to expansion and improvement in profitability of its drop forging division.

SHARE STAKES
Yeoman Investment Trust—
Mr. D. A. Reid, director, has ceased to have an interest as trustee in a on-beneficial holding of 30.000 chames

10,000 shares. for the Property Security Investment. cent.

THROGMORTON OFFER FOR CRAY Throgmorton Trust has com-pleted its takeover of Capital

for Industry and will make, as soon as possible, in accordance with the City code, an offer for the shares of Cray Electronics not already acquired. RACAL/DECCA

Acceptances on behalf of Racal Electronics have been received from holders of 2,136,449 existing Decca ordinary shares and 1,672,694 existing "A" ordinary

Together with the shares aiready owned, Racal now owns or has acceptances in respect of the equivalent of 60 er cent of Decca ordinary and 28 per cent "A" ordinary shares.

of 30,000 shares.

Sime Darby Berhad—Mr.

Wee Cho Yaw. director, has acquired a beneficial interest in 10,000 shares.

Property Security Investment of the acquired and share represent acquired a beneficial interest in 10,000 shares.

27/28 Lovat Lane London EC3R 8EB 5000's La capitalisate. Company pric

FINANCE FOR INDUSTRY TERM DEPOSITS Deposits of £1,000-£50,000 accepted for fixed terms of 3-10 years. Interest paid gross, half-yearly. Rate for deposits received not later than 28.3.80. Terms (years) 3 4 5 6 7 8 9 10 Interest % 141 141 141 141 141 141 141 141 Deposits to and further information from The Chief Cashier, Finance for Industry Limited, 91. Waterloo Road, London SEI SEP (01-928 7822, Ext. 367). Cheques payable to "Bank of England, a/c FFI." FFI is the holding company for ICFC

Higher rates of reversionary bonus for 1979 have been declared by the Gresbam Life Assurance Society, a member of the AMEV Group of the Notherlands. On new series assurances and deferred annuities, the rates are lifted 15p to £3.65 per cent and £3.95 per cent respectively compound. On the old series

maximum of 77.5 per cent compared with 74.5 per cent compa compared with £3 to £10 in 1978. On the executive pension plan Another home service insur- the rate is lifted by 50p to £6.50 ance company, London and per cent compound for both Manchester Assurance, is lifting policies in force and single pre-1979 in the ordinary branch by also apply to the recently issued 10p to £4.90 per cent of the sum Pensionplus. On paid-up policles, assured. But the rate for industhe rate is improved by 25p to trial branch policies is main- £3.25 per cent.

assurances the rate, based on the

Tokyo Pacific Holdings N.Y. Tokyo Pacific Holdings (Seaboard) N.V.

The Annual Report as of 31st December 1979 has been published and may be obtained from:

Pierson, Heldring & Pierson M.V. Herengracht 214, Amsterdam

Stock Office Services, 5th Floor, Drapers Gardens 12 Throgmorton Avenue.

Banque Rothschild 21 Rue Laifitte, Paris 9

N. M. Rothschild & Sons Limite New Court, St. Swithin's Lane,

Merriii Lynch Internatio all European offices

Szi. Oppenheim jr. & Cie. Unter Sachsenhausen 4, 5 Köln

Trinkaus & Burkhardt

Düsseldorf 1

Banque de Paris et des Pays-I 3 rue d'Antin, Paris 2

Königsallee 21-23 D4000,

Royal Exchange Building 58 Pitt Street, Sydney N.S.W. 2000

M. J. H. Nightingale & Co. Limited

EB Telephone 01-621 1212 Last Change Gross Yield price on week Div (p) % P/E

# "In 1979 the Group continued to make good progress in its development as a leading world-wide banking organisation."

Robert Leigh-Pemberton, Chairman.

"The strengthening of our position as a leading international bank has continued to be at the heart of our strategy and in this context we welcome the management and staff of the National Bank of North America to the Group. However, the greater part of our earnings is still derived from the Group's UK operations. Interest rates were a dominant factor in 1979 but income from other sources continues to increase. This is a key objective, for there is every sign that costs will continue to rise and we must remain profitable at interest rate levels considerably lower than those which obtain today."

International In the ten years since we defined the strategy to develop National Westminster as a diversified international banking organisation, not only has the contribution from international activities increased significantly but total international assets have grown from £1 billion to over £12 billion. There was an 18% increase in earnings from international business in 1979; this sector produced over £100 million towards Group profits – a significant milestone – despite high levels of liquidity in the international markets which created increased competition: The substantially increased volume of advances and an active foreign exchange market were both factors in the improved performance.

Immediate steps have been taken to ensure the integration of National Bank of North America into our Group strategy. A significant early development has been the acquisition of a further 16 branches to complement the existing network of 141 branches. development.

Social Responsibility Our social contribution as a Group rests primarily on the effective performance of our role as a major financial institution. As instances, we have sustained many businesses through a difficult year, and have financed a significant part of the North Sea oil

> We sponsored a major new campaign entitled 'Action Against Crime', launched in association with Age Concern, which is intended to help elderly people avoid the dangers of violence and fraud, and to assist those who unfortunately become victims.

Through our project known as National Westminster Enterprises, we made over 100 experienced staff available for extended periods to a wide variety of charities and other organisations, to assist them mainly in their administration; the direct cost to the Bank was in excess of £1 million. The number of staff on secondment will increase substantially in 1980 in response to the challenge to the private sector represented by public expenditure cuts. We shall also increase substantially our expenditure on sponsorship and support of community projects.

United Kingdom There was a significant increase in volume during the year, both in our banking activities and in our other operations in the UK. We have improved our range of services, with special attention to the needs of small businesses, by introducing schemes in conjunction with the Council for Small Industries in Rural Areas (CoSIRA) and the Welsh Development Agency (WDA). We have also introduced a scheme to provide venture capital through a new subsidiary, Growth Options

Limited. Within the limitations imposed by Government restrictions on the growth of the money supply, we have given priority to customers requiring finance to increase exports and to

reduce imports. The main UK subsidiaries all expanded their operations. Lombard North Central increased its total new business by 40 % over 1978; Isle of Man and Ulster Banks achieved good profit growth; County Bank significantly expanded all its services, particularly in the international field.

## Salient Points from the Chairman's Statement to Shareholders

Pre-tax profits expressed on an historic cost basis show an increase of 44 % over 1978 at £441.5 million. Adjusted on a current cost accounting basis this reduces to £285 million.

Development necessitates a sound capital base and, whilst retained profits form an important element in maintaining the Group's capital structure, steps have again been taken during the year to supplement capital resources through additional lean issues to keep them in line with the requirements of our expanding operations.

Removal of dividend constraints has enabled us to declare an increase in distribution which goes some way to restoring the loss in purchasing power which our shareholders have had to bear since restrictions were introduced in 1971.

A slower growth in advances and current account balances is expected in 1980 because of the current tight monetary policy.

There is a strong demand for our services and we have an excellent basis on which to build. Our resources will be directed to seek out new opportunities and to strengthen and widen our relationships with existing customers.

Our Business Development Loan Scheme now extends to terms of up to ten years and amounts up to £100,000. We now operate a fixed rate lending scheme for larger amounts and for cases where more flexible repayment arrangements

## Figures taken from the Group's Accounts 1979

Ordinary share capital £234 million £1,306 million Reserves

Current, deposit and other accounts

 $f_{26,542}$  million  $f_{18,115}$  million

Advances Group profit after

profit-sharing

allocation to staff

£441 million £112 million

Tax

Retained profit

£289 million

Copies of the Report and Accounts, which include the Chairman's Statement, may be obtained from the Secretary's Office, National Westminster Bank Limited, 41 Lothbury, London EC2P 2BP.

**《→** Working with Export Credits Guarantee Department the Bank has financed, and given bonds in connection with, a substantial number of large export contracts.

Abolition of exchange controls has presented many new opportunities and the Group has the necessary skills to advise both companies and individuals on these points.

The second decade of National Westminster Group, which we are now entering, will bring significant technological advances. We shall take advantage of developments to ensure the most economical use of our computer centres and to automate many activities in our

The first phase of an on-line computer operation for the NBNA branch network will be completed in 1980 using National Westminster's experience and expertise.

We have continued to obtain lead management roles in syndicated currency loans. County Bank has enhanced its reputation by participation in currency lending and in Eurobond management.

Further examples of our social responsibility programmes are Project Respond, a community award scheme for secondary schools, and Matching Support, under which members of staff can obtain funds for charities and community organisations in which they are actively and voluntarily involved.

# 2 National Westminster Bank Group

One of the world's leading banks



# If we could bottle it we'd make a fortune.



There's only one place you'll find genuine Hilton Atmosphere. And that's at the Hilton.

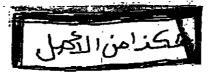
Many thousands of people enjoy it every year and some, it would seem, can't get enough.

For they bring all their conferences and banquets back to us year after year. What

makes the atmosphere so special is not for us to say. But a short trip to the Hilton at 22 Park Lane will probably provide you with all the answers.

Alternatively, you can telephone
David Irving, our Conferences and Banqueting
Manager on 01-493 9751.

Hilton International London



INTERNATIONAL BONDS

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Societe General

5. G. Warburg,

Deutsche Bank

Salomon Bros

Kredietbank (Suisse Kredietbank (Suisse

BY STEWART FLEMING

Citicorp

100

100

† Floating rate note.

125

U.S. DOLLARS

Citicorp Ov. Fin.

SWISS FRANCS Danish Exp. Fin. Fund

Swedish Export

Credit Corporation

**Sweden** 

**iSweden** 

\*Austria

\*\*Austria

D-MARKS

STERLING

U.S. BONDS

(g'teed Citicorp)

## BY OUR EUROMARKETS STAFF Sweden aims at turning on the tap

THE LONG-AWAITED Carter an issue of this quality.

In the market is confident of a winced most investors that the satisfactory investor response to U.S. currency is worth buying the new-fangled "perpetual but it has not yet brought any FRN" of \$200m which Citicorp such into dollar denominated is launching through its London

Investor appetite for fixed interest dollar denominated bonds will be put to the test this week when the first tranche of the \$500m 31-year "tap" issue for Sweden goes on offer. The reception afforded to this issue, which is managed by S. G. Warburg and Salomon Brothers will be closely monitored by Eurobond houses in London Continental financial It marks the reof the fixed-rate market

pentres. which has been effectively dosed since last summer. Jaitially a tranche of \$125m only will be on offer and the remainder will follow, before the year is out, at the borrowers' option. Contrary to usual Eurobond market practice, no coupon or price for the bond will be indicated: instead the issue will be offered on the basis of a guaranteed yield, which is

investment bank. This is basically a 24-year FRN with interest paid three-monthly at three-month Libor, but the investor has the option there-after of keeping his cash with Citicorp as long as he wants, receiving interest at the threemonth "bid" rate, and secure in the knowledge that he can get repayment in full at sixmonth intervals. Citicorp has a repayment option after six

Viewed as an instrument of bank financing, the issue appears to be an imaginative answer to troubled circumstances. Viewed as a bond, it is a sign of the times—not only is the interest rate floating but the maturity is now floating as well.

Straight dollar bond prices moved up about 1 of a point on the week while Deutsche Mark foreign bond prices took a nasty knock, posting falls of 21 points. It would appear, howexpected to be around 15 per ever, that investors selling D. be mostly retail in nature and cent, marking a new high for Mark bonds are not switching based in continental Europe.

but are putting their money into D-Mark deposits. They are doing this, according to dealers in Frankfurt, on the assumption that German interest rates have still some way to go before reaching their peak while D-Mark bond prices can be

expected to fall further. In sharp contrast, prices on the Swiss franc foreign bond market managed a modest gain of about & of a point. Bankers Zurich report that the market is consolidating, albeit

In the dollar sector, investors buying bonds concentrated their attention to the longer end of the market. Some longer maturity issues posted gains of nearly three points on the week. This happened to the 10 per cent Michelin bond of 1994 which closed on Friday at 751. Dealers said such rises were more a reflection of the scarcity of paper available and the short positions held by most dealers, than an indication that buying interest was

Buyers last week appeared to based in continental Europe. the large institutional investors of the bonds. are now prepared to commit funds to the Sweden issue.

Selling pressure was strong on D-Mark bonds throughout the week. Older issues suffered the worst losses, in some cases as much as four points. The 73 Brazil bond to 1984 thus closed on Friday at 86%, having started on Monday at 914. More recent issues suffered smaller losses: for instance the 81 bond for Gasunie to 1987 shed 12 points on the week to close at 93%.

This further bout of weakness means that yields of over 10 per cent are now available on a wide variety of D-Mark bonds. Some issues can be placed, as new was demonstrated with the DM 200m public issue for Sweden, which yields 9.75 per cent. The lead manager, Deutsche Bank, however, took the precaution of numbering the bonds so as to control distribution of the issue.

The underwriting agreement allows the lead manager to recover from any underwriters who dump bonds in the open market the full amount of the

into dollar denominated bonds. The market will be looking this agreement is valid for three week for some indication that months from the date of issue

In Switzerland, despite last week's consolidation new issue managers are still cautious. As of Friday the major banks were sticking to their policy of with-holding new issues. It thus looks as if the public market may not reopen till April 9, when Gutzwiller Kurz Bangue Bungener is to float a loan for the Dutch company Buhrmann-Tetterode.

There are signs, however, of activity in the private placement market where Swiss Volskbank is managing a SwFr 50m issue for the Danish Export Finance Fund. This issue will bear a coupon of 71 per cent and be issued at par, while the maturity contains an unusual feature in that it is graduated between three and five years.

Austria is also floating a twotranche private placement totalling SwFr 50m through the management of Kredietbank (Suisse) SA. Maturities are three and five years with coupons of 67 and 7 per cent.

Eurocredits Page 26

## BY PETER MONTAGNON

# Oiling the wheels of recycling

THE International Monetary amounts of the supplementary Fund is moving slowly towards financing facility and funds the realisation that it will have which can be raised quickly to play an increasing role in recycling surplus oil exporters' funds to countries with balance of payments deficits.

THE IMF

With the OPEC surplus now experted by the IMF itself to does not need any new resources reach about \$120bn this year, international banks have been at pains to point out that they can no longer bear the brunt of this recycling process. Many have pressed for a more active role from institutions such as the IMF and World Bank.

However, in executive board on recycling last week, IMF directors generally took the view that there is no need at present for a new financing facility. Also, industrial countries in particular are adament that the IMF should not abandon its policy of conditional lending.

The IMF, which was not a net lender last year, is currently Sources in Washington say that it has something tike \$200m at its disposal in the

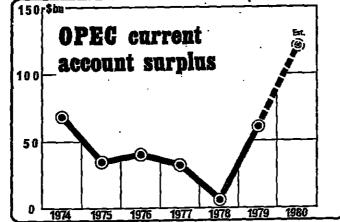
through implementation of the General Arrangements to Borrow (GAB) from its richer

In these circumstances it to step up its lending, barring any major world banking crisis which IMF staff do not at present foresee.

But a subtle change has emerged in that members of the board are beginning to look beyond this to the question of what the IMF should be ready to do if it turned out that banks could not after all cope with the recycling process

Here there are broadly three

must be stressed that the Fund One is that the IMF should nelled. take upon itself the task of borrowing funds on commer- to be more favoured by the cial markets for on-lending to IMF staff, is that it might be



Fund for Developing Countries is a long way from implementinto which the profits from ing any of them at this stage. current gold sales are chan-

Another idea, which seems

proposals which have been either through further sales of ments with surplus member aired informally, though it gold or through using the Trust governments to make credit commitments available to the fund in the case of sudden urgent need.

This approach would tend to complement the activities of the commercial banks rather than substituting for them as its members at interest rates desirable to stitch together a in the first proposal. But it which could be subsidised network of bilateral agree-would be complicated to

arrange; in particular, the conditions at which the surplus countries would lend could be a matter for protracted discus-

A third proposal is for a new and substantial increase in quotas which would have the effect of increasing the IMF's ability to lend. In view of the fact that the seventh quota review, which basically doubles existing quotas, is still not complete, this would be seen by many as a rather long-term

The IMF board is expected to continue its deliberations on the recycling issue in the weeks ahead. Even now, however, it appears likely that the question will be an important talking point when its interim committee meets in Hamburg late in April

For the time being the IMF simply refuses to run scared on the question of mounting international debt. Those in the banking community who are alarmed will have to wait a while before relief is on the

Cold comfort from the

1982

1983

1987

Carter package

CURRENT INTERNATIONAL BOND ISSUES

Av. life Coupon

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AFTER RALLYING initially in the wake of the Carter Administrations inflation package, prices on the New York bond market fell swiftly on Thursday and Friday

of last week.
The bulk of the trading activity was among Wall Street dealers rather than between long-term investors, and as a result the markets were thin and potentially volatile. Just how thin became apparent at the end of the week, when prices slumped again to close at roughly the same levels at which they opened on Monday.
On balance, therefore, the

market seems to be giving at best a lukewarm response to the Administration's efforts. For the moment, long-term inflationary expectations do not seem to have been dramatically altered. For the shorter term, investors appear to be focusing on the continued uncertainties about how Congress will handle the proposed budget cuts, on doubts about how realistic the Administration's budget forecasts are. in a period of unpredictable inflation, and on assessing how the

Federal Reserve Board will implement its credit restraint programme in the weeks ahead. Further signs that this period promises to be a particularly difficult one for the central bank appeared late on Friday with news of an unexpectedly strong surge in the money supply in

the latest banking week ended to fluctuate more widely. The March 12.

The Fed reported that M1-B. the broader of the two principal measures of the money supply which includes currency in cir- as 18 per cent, a decision culation and cheque accounts reached on March 7. The at banks and savings institutions, rose by \$1.9bn MI-A, which excludes chequeing

	Week to Mar. 21 %	Week t Mar. 14
3-month Trees, bill Fed funds weekly	15.20	15.20
average	16.51	15.20
1-mth. Comcl. Paper	16,25	16.75
Treas, 30-year bond	12.17	12.18
Long AAA utility	13.50	13.75
Long AA industrial	13.00	13.13

account deposits at savings institutions, rose by \$1.7bn to \$376.3bn.

At the same time, the Fed reported signs of what some economists fear will be an impending surge in bank borrowing (and an accompanying surge in the money supply). Business loans at large banks during the week rose by \$1.35bn.

The markets will be watching to see how the central bank responds to these figures, aware that its Open Market Committee has decided to permit the so far this year, ev interest rate on Federal funds already published.

latest minutes of the Fed's Open Market Committee disclose that the central bank may let Federal funds trade at as high previous limit had been 163 per cent.

Even before the release of the money supply data, however, analysts were predicting and the markets signalling that the easy conditions in the money markets, which led to a marked decline in short-term interest rates through the early part of last week, would soon be coming to an end. (Three-month Treasury bill rates fell at one point to around 141 per cent before rising to over 15 per cent on Friday).

Several factors account for this judgment, but a key one and the event which sparked the turnaround in the markets on Thursday was the news that the Treasury is to make heavy demands for funds in the next weeks. Including last week's financing, the Treasury Is raising, or planning to raise, around \$19.5hn, much of it by issuing short-term securities.

The coming week will also see the release of the latest consumer price index for February, which is generally expected to confirm the accelleration in the pace of inflation so far this year, evident in data

## FT INTERNATIONAL BOND SERVICE

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1	Bell Canada 10% 86 CS	90 30	867	885	402	14 MZ.	18 63
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ı	Hudson Bay 102 BS CS	60 50	787	78²	+0%	+0%	14.98
	Quebec 10% 86 CS	50	82%	843	-02	-0-	14.58
1	R. Bk, Canada 10 86 CS	40 40	84	85%	+04	+0%	13.78
4	R. Bk. Canada 10 94 C\$	40	75%	764	+04	+1%	13.59
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1	Morway on 64 Fi	75	91	912	-02.	+04	11.17
į	Norway 81 84 F1 Norway 82 84 F1 Norway 82 84 F1 Philips Lemps 82 84 F1 Air France 11 84 FFr Euratom 92 87 FFr Finland 11 84 FFr Finland 11 84 FFr Finland 11 84 FFr Reneult 94 85 FFr Seint-Gobain 92 86 FFr Solvey et Cie 92 87 FFr Citicorp 0/S 132 90 E. EIB 112 91 E Finence for Ind. 13 91 E Finence for Ind. 142 88 E Fin. for Ind. 142 88 E Fin. for Ind. 142 88 E Fin. for Ind. 142 88 E Indoneala 84 91 KO Mitsubishi 72 84 KD Mitsubishi 72 84 KD Morges Kom. 72 88 KD Occidental 82 91 KO Akzo 92 87 LuxFr Euratom 8 87 LuxFr Euratom 94 88 LuxFr Euratom 94 88 LuxFr	75 120	901	9i '	-02	+14	14.59 14.90 14.98 14.58 13.78 13.59 10.21 10.78 10.78 11.57 11.21 10.78 11.51 11.51 11.51 11.51 14.55 14.55 14.53 14.73
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1	Eurapol 11 84 FFr	80	881	887	0	+0%	14.56
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ļ	Ger de France 11 84 FFr	150	891	90%	0 .	÷0÷.	14.12
1	IRM France 11% 84 FFE	120	90°-	914	ο.	+0%	14.54
Į	Renault 94 85 FFT	100	81%	83	G -	+0¾ '	14.74
j	Saint-Gobain 94 86 FFs	130	80%	81	٥.	+0-	14.73
١	Solvay et Cie 94 87 FFr	126	78	783	0 -	-02	14.89
J	Total Oil 53, 87 FFr	150	77%	7812	Ö.	+0,	14.57
١	Citicorp O/S 1312 90 £	50	90%	91	. 0 .	ro.	15.38
j	EJB 111, 91 E	25	804	81	+44.	-05	15.17
1	Finance for Ind. 13 91 £	15	85%	87',	+0.	-0-2	15.59
ł	Fin. for Ind. 121, 89 E	30	85	85%	. 0	-0-0	15.54
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 No information available previous day's price.

† Only one market maker supplied a price. STRAIGHT BONDS: The yield is the yield to redemption of the mid-price; the amount issued is

in millions of currency units ex-cept for Yen bonds where it is in billions. Change on week= Change over price a week earlier.

FLOATING RATE NOTES: Denominated in dollars unless otherwise indicated. Coupon shown is minimum. C.dte=Date next coupon becomes effective. Spread = Margin above six-month offered rate (‡ three-month; § above mean rate) for U.S. dollars. C.cpn = The current coupon. C.yld = The current yield.

CONVERTIBLE BONDS: Denominated in dollars unless otherwise indicated. Chg. day Change on day. Cnv. date = First date for conversion into shares. Cnv. price = Nominal amount of bond per share expressed in currency of share at conversion rate fixed at issue. Prem = Percentises promising of the current centage premium of the current effective price of acquiring shares via the bond over the most recent price of the shares.

The list shows the 200 latest international bonds for which an adequate secondary market exists. The prices over the past week were supplied by: Arab Company for Trading Securities SAK; Kredietbank NV; Credit Commercial de France; Credit Lyonnais; Commerciank AG; Deutsche Bank AG; Westdeutsche Landesbank Girozentrale; Banque Internationale Luxembourg; Kredietbank Luxembourg Algemene Bank Nederland NV Pierson, Heldring and Pierson Credit Suisse/Swiss Credit Bank Union Bank of Switzerland Akroyd and Smithers: Bankers Trust Interpational; Bondtrade Credit Commercial de France (Secs.) London; Citicorp International Bank; Dalwa Europe NV; Deltec Trading Company; Dillon, Read Overseas Corporation; EBC; First Chicago; Goldman Sachs International Goldman Sachs International Corporation; Hambros Bank; IRJ International; Kidder Peabody International; Merrill Lynch; Morgan Stanley International; Nesbitt Thomson; Salomon Brothers International; Samuel Montagu and Co.; Scandinavian Bank; Strauss Turnbull and Co.; Sumitomo Finance International;

Sumitomo Finance International: S. G. Warburg and Co.; Wood Closing prices on March 21

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Good communications by road, rail, sea and air. A versatile, 120,000 strong

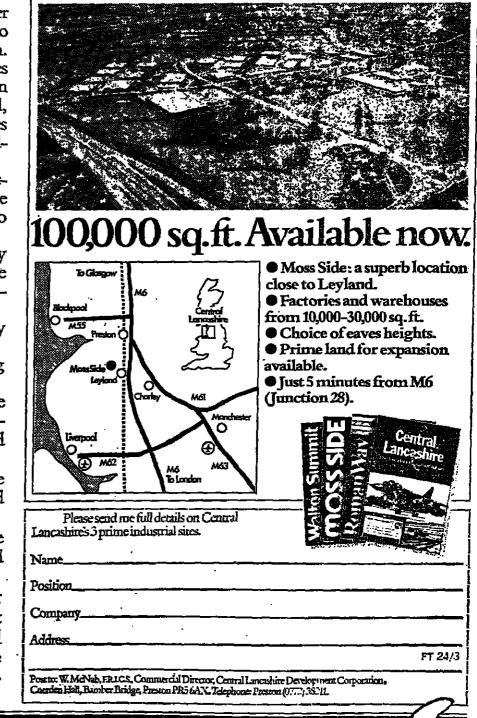
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housing, social amenities, and educational establishments. If you'd like to get your

business moving, then contact our Commercial Director, Bill McNab, and he'll send you the hard facts about Central Lancashire New Town.

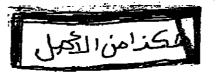


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# WORLD STOCK MARKETS

	WORLD ST		
High   Low   Stock   21   4514   3514   Columbia Gas	See   See	Migh   Low   Stock   21   1979-20	Table
Since Compile	Mar.   Mar.   Mar.   Mar.   Mar.   Mar.   Mar.   Migh   Low	1,920	0.18



# FINANCIAL TIMES SURVEY

Monday March 24 1980

# Begian Banking and Finance

The sharp decline in Belgium's economic fortunes since last summer—almost entirely the result of the impact of oil price increases—has thrown its financial sector into some disarray. The coming months will provide yet another test of the system's resilience under pressure.

## Economy takes sudden slide

## By Giles Merritt

THE STORM signals that during the last six months have giving warning Belgium's worsening economic difficulties have in recent weeks begun to look more like distress

The Belgian franc has of late set the warning bells of the European Monetary System's (EMS) "divergence indicator" ringing almost daily, and even the recent dramatic increase of two points in Belgium's discount rate, taking it to an all-time high of 14 per cent, has failed to stem the capital outflow that threaens a forced devaluation of

On the face of it the National Bank's decision to push interest rates so high should make Belgium a magnet for capital. Even with inflation rising in February to an annualised rate of 6.45 per cent, the margin of real interest is now one of

the highest on offer. But the Belgian economy's strictural problems are serious 85 per cent level reached in and waning international con-

M. Wilfred Martens to solve them without precipitating a fresh political crisis is now com-pounding the troubles facing the

per cent, making the most positive and apparently assured of all the rallies in the Belgian economy since the 1973-74 oil crisis. The mini-boom dictated hurried revisions of last year's growth forecasts, so that the rate of increase in Gross National Product (GNP) demonstrated an encouraging curve from 1.2 per cent in 1977 over 1976, two per cent in 1978 and

3.5 per cent for 1979. In the event GNP increased by nearer three per cent last year over 1978. But the responsiveness of the open Belgian economy to improvements in was neve . During nevertheless impressive. what appeared to be the renewed halcyon days of the first half of last year, such key Belgian industries as the metallurgical sector registered production increases of around 20 per cent, while even the problematical textiles sector showed a gain of almost 14 per cent in com-parison with the corresponding 1978 period.

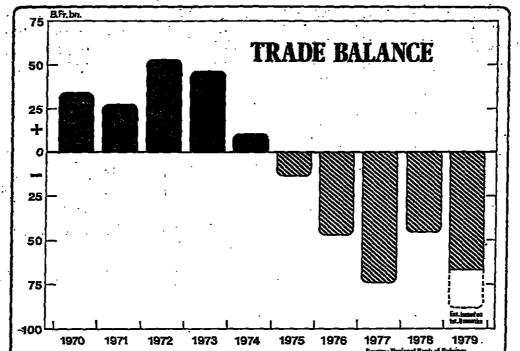
The upshot of these improvements was that the level of Belgian industrial capacity in use rose to almost 78 per cent -still considerably short of the sidence in the ability of the the 77 per cent figure last coalition government led by reached in 1976.

Even at that time, though, economic analysts were stress ing that the upturn was cyclical and adding ominously that what went up was liable to come down. Belgium's bugbear. Yet exactly a year ago
Belgium was riding high with a
strong surge in the economy
that demonstrated the resources
and strength of the country's
streamlined and export-orientated industries. During the
12 months to mid-1979 industrial
production advanced by 10.6
weat up was made to
come down. Belgium's bugbear,
not surprisingly, is rising oil
prices, for the 1979 price
increases have already cut at
least one per cent off likely
GNP growth in 1980 and
reduced it to 1-1.5 per cent as
against the '2.5 or even three
per cent rate once forecast.

## Underscore

According to the annual report published recently by the Paris-based Organisation for Economic Co-operation and Development (OECD), this year will see higher inflation, a probable rise in unemployment and a larger trade deficit for Belgium. And as if to underscore the message that soaring energy costs are largely respon-sible for that unhappy picture, the OECD added when publishing its report in mid-January that the latest round of oil price rises had occurred since the report was drawn up, so that such forecasts as a \$2.6bn current account trade deficit for the Belgium - Luxembourg economic union, virtually unchanged for 1980 from last year's level, were liable to be

The key to Belgium's troubles, though, is neither the savage increases in the oil import bill nor accelerating interest rates -even though Belgian bankers grouped in the Association des Banques Belges complained at the end of last month that the raising of the discount rate from 10.5 per cent to 12 per cent, and the fact that Belgium is now



rates will remain higher than longer term rates, "means there is no longer any room for manoeuvre" in the economy. Belgium's fundamental prob-lem is employment. The jobless total remains the second highest

in the EEC, after Ireland's, and the country's snowballing State spending occasioned by that has an increasingly disruptive effect on the economy. The political constraints on the coalition Government, in a country that risks being split apart by the rivalry between the francophone Walloon and Dutch-speaking apparently locked into a posi-tion where short-term interest unlikely that the trend can be

Last year, taking the EEC as a whole, the ratio between Government expenditures and Gross Domestic Products (GDP) increased only slightly over 1975 levels. But in Belgium

swiftly reversed.

that ratio has gone from 46.9 per cent in 1975 to reach 53.1 per cent for 1979. And in the same five-year period the net deficit of the Belgian public sector rose from 4.4 per cent of CDP to 7.4 per cent of GDP to 74 per cent.

To fund social services and risk capital has become availbenefits that are crucial to a able to Belgian industry and country edging toward an

borrowing abroad. The results of that change of policy have been mixed. More there are some signs that funds unemployment rate of 9 per are beginning to be funnelled cent of the active population— into programmes for reconvert-

terms of awarding benefits—successive Belgian Governments

market. In doing so they deprived Belgian industry of

investment funds. Last year the

Government reversed a stand-

ing rule of ten years and turned

ing the run-down traditional industries of Walionia. On the other hand, recourse to the international markets has done little to reinforce the credibility of the Belgian franc, and the tough deflationary measures needed to keep the currency on level pegging with the Deutsche Mark and the Dutch guilder-for the Netherlands and West Germany absorb well over 40 per cent of Belgium's vital export trade-have pushed interest rates to their record levels. In other words, capital is now more freely available domestically, but is often too expensive for the needlest Belgian borrowers.

Belgium is of course a small highly industrialised country which despite its problems of economic management clings close to the top of the EEC wealth ladder. It should be stressed, for instance, that its employment difficulties stem in some part from its own indus-trial success. The overall increase in productivity increase in productivity recorded between 1970-79 was 81 per cent, well ahead of the

rest of Western Europe. But the phenomenon has been Belgium's own antidote to unbut which are widely regarded as now being too "elastic" in competitively high wages, for productivity boosts averaging 6-7 per cent a year have enabled employers to slim their have soaked up the bulk of capital available on the domestic workforces. High produc-tivity, depending upon which way you look at it, is either the silver lining to the cloud of unemployment or it is the only option available to Belgian industry to combat costs that could push its goods out of the international marketplace. Belgian costs have traditionally been high, as befits a

country that grew wealthy on

a 19th century industrial base

the spectre that continually haunts the Belgian authorities. Belgium has in recent years won some resounding victories over inflation, but the war goes stubbornly and frustratingly on. The last successful battle was in 1978, when the 5.4 per cent inflation rate being projected by the consumer price index at the beginning of that year was in

and foreign investment boom

## fact reduced by severe domestic controls to just 3.7 per cent. **Pointers**

But by last year the trend had begun to reverse, so that by mid-year oil and commodity industrial wholesale prices up by 6.9 per cent over June 1978. By last October the key consumer price index was showing a 5.1 per cent rise over the past 12 months, and now the pointers suggest that 1980 will have produced an inflation rate of around 7 per cent.

Outsiders often describe Belgium's infiation rate as being "German-style," and when set against the double figure rates of several other EEC or industrial nations it must seem benign enough. But keeping in perfect step with West Germany and the Netherlands is what counts for Belgium's foreign trade, and now there are fears in those terms Belgian inflation may be getting out of hand. The OECD pointed to one problem area that has of late been the subject of heated dis-cussion inside Belgium — the country's system of automatically linking wages to the con-sumer index—and warned that the risk it carries of creating a wages-prices spiral would best be countered by adjusting the and thrived again on the post-World War II industrial rebirth indexation mechanism.

## Landesbanken and Sparkassen

# **Introducing the 4 basic strengths** of Germany's largest banking sector:

Size. The Savings Banks Organization is Germany's largest bank grouping with a combined business volume of almost DM 800 billion-a market share of some 40 per cent - and more than half of the nation's total savings depo-

Operating within the system are 603 independent Sparkassen and 12 Landesbanken, as well as 13 Offentliche Bausparkassen (Public Building Societies), which together maintain more than 17,000 offices and employ a staff of over 200,000.

Scope. The facilities and services of Germany's Sparkassen permeate the entire economy from the largest cities to the smallest rural areas. This pervasive coverage provides indepth local expertise and invaluable client contacts at all levels of business and finance. In addition to their broad wholesale banking capabilities, the Landesbanken act as central banks for the Sparkassen in their region, and function as their clearing houses on a national level. In addition to their decisive role in this vast integrated domestic network, the Landesbanken add key capabilities mternational

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# Foreign loans replace tired home market

ing programme this year ran into the problems posed by an overtapped and tired market almost as soon as it had begun. In previous years the authoripublic sector institutions that just about monopolise the how scraped by. This year, things are not looking so good. In January the Kingdom itself launched the 1980 borrowing

was intended to raise around BFr 55bn to BFr 60bn. The bond carried a post-war record coupon of 11 per cent and was priced at par, with a life, as is usual with domestic issues, of around nine years.

Participants among the hanking syndicate underwriting the were enthusiastic that the money could be raised with the minimum of fuss. A lot of people were impressed by the coupon. But in these difficult days operators in Belgium, like their counterparts the world over, are staying at the short end of the market, where interest rates even in January were a good two points above the effective yield of the bond.

## Disaster

At the end of the "selling period" on the primary market with the underwriters. As far investors—small and large

the end, but the banks told the Finance Ministry that there any more money on the domestic market at least until after agent. This loan follows last Easter. Even then an 11 per year's first-ever sally into the Easter. Even then an 11 per cent coupon would look rather

Belgium needs to borrow eight-year period. about BFr 350bn this year, about Negotiations fo BFr 15bn more than last year. credit are said to be tough, with The public debt figure repre- Belgium holding out for a mar-

sents around 7 per cent of Gross National Product (GNP) this year, although Prime Minister Wilfried Martens has declared that he intends to cut the deficit to about 6.5 per cent of GNP this year. His aim is to try to reduce the proportion of GNP that the public debt represents it reaches the more reasonable figure of 5 per cent.

needed, and even the secondary market looks grim. Banks which issues on to the secondary market were telephoned by the Finance Ministry, with the discreet but firm message that they were not permitted to retheir portfolios from current levels.

This was a classic example of the way things are done in Belgium. With its embattled currency and shaky economy the authorities resort more and more to operating in secret. with no public announcements.
This is a highly understandable that threaten this small country, extremely vulnerable sures from outside.

Borrowing policy this year is ery likely to be characterised by a shift from reliance on the

Since the beginning of this The Finance Ministry is putting the final touches to a syndicated Eurocredit for the State of managed by Societe Generale de Banque and for which Eurocredit market by Belgium when it raised \$1bn over an

Negotiations for the current

gin which includes an element much of per cent above LIBOR (London Interbank Offered its first Euroioan last December. it negotiated a # per cent maring to a i per cent for the re-maining four years of the ever, conditions in the market have charged, with international Iran and Afghanistan—being al-together more cautious in their

lending. Belgium is a prime borrower, its name linked to the European Community, but even so the fine terms it is seeking now may prove difficult

## Arranging

Once this Euroloan is raised Belgium will approach the Euromarkets once more this year for about another \$1bn, and Kredietbank has already been named as the arranging

the authorities have already taken to heart domestic bankers have told them. The Belgian capital market is going to prove difficult to tap this year.

Last year the public sector domestic market, the balance of its requirements being made up short-term denominated in D-marks and

the jumbo Eurocredit. At the beginning of the year the authorities had intended to seek a similar amount from the market. But if the current trend towards overseas loans is anything to go by only BFr 240bn will be raised on the domestic market. Of that BFr 60bn has already been funded. And if Mr. Martens succeeds in cutting the deficit this year perhaps BFr 20-30bn can be lopped off the amount that needs to be funded domestically. But the likely outcome is

banker recently remarked that the borrower, the safety face up to the fact that in

problem is likely to be compounded by the trend in interest rates and inflation, making it increasingly difficult to set attractive terms for forthcoming

domestic interest rates up to record levels. The pe market starved for many months now, driving up the cost of attracting funds. Added to this is a new thrust to inflation provided by spiralling energy costs. From an average of below 5 per cent in 1979 the to between 6.5 and 7 per cent moderating energy demand, is likely to keep the acceleration

within reasonable bounds. Short-term rates are kept high by intervention, and long-term interest rates seem at the outse unlikely to fare any better this year. But it is just possible that a moderation in the inflaion trend combined with a much larger dependence on foreign credits could eventually relieve some of the upward pre that currently underpins the long-term interest rate structure in Belgium. Bu the main problems of the future may turn out to be related more to foreign rather than domeste debt.

Paul Christopher

# Bankers' fire directed at high public spending

KREDIETBANK. THE smallest current situation threatens of Belgium's big three banks, provoke new crises, prides itself as the most But Banque dynamic and profitable. Banque Bruxelles Lambert, still reeling from its 1974-75 financial setback, has a lean and hungry look and says it is making essential reforms years ahead of its competitors. The No. 1 bank, Societé Générale de Banque, which has been around longer than Belgium itself, claims it has always been and still is in a class by itself, "la grande dame" of Belgian Bank-

ing.
These are the self-portraits that emerged in conversations ing the personnel and the with leading members of the physical structures of two quite Belgian financial communityand none is really far off the mark. Predictably, each bank emphasised its own strengths and happily pointed out the weaknesses it perceived in its rivals. At the same time none took the boasts of its challengers lightly. Indeed all displayed a healthy respect for one another. They reserved their fire for the free-spending, high-handed ways of government, and their fears for that great unknown. the looming recession. If they had an obsession, it was leap-

frogging short-term interest

## Complained

"The coming years will be very difficult for all of us," one banker said. "The chief prob-lem is high rates. We are seeing a very small profit margin." A top official at another bank complained that money was coming in much too slowly, whereas de-mand, both public and private, showed no sign of letting up.
"They [the borrowers] want
more and more and more," he has just about dried up." With short-term deposit rates now in erress of 16 per cent, he sugres'ed, "there's really no alternative to a recession."

An economist at the third bank, told of the remarks of his counterparts, said: "On that, at least, we're all on the same wavelength. Interest costs would just keep going up, he said. "You must realise that taken together the three institutions have about half their assets locked up in long-term yields. We're all getting squeezed." To make paper, with relatively low squeezed." To make matters worse, he said, too many financial groups are chasing too few funds. "Belgium is overbanked. We all know it."

Other bankers point out that the bleak outlook seems to be giving Bruxelles Lambert the most headaches. Given good times, they say, the struggling enterprise might have been able to get back on its feet, but the

Lambert hotly disputes this questionable foreign exchange dealings at the former Banque Bruxelles, ending in its merger with the Banque Lambert in 1975, represent a continuing burden. Bruxelles Lambert is still absorbing the estimated BFr 3.5bn loss from the irregu-larities, which it variously refers to as the "difficulties."

the "drama" and the "error." Moreover, Bruxelles Lambert executives concede that mesh different organisations was an arduous task that would take several more years to complete. But they insisted that the bank now has several advantages. A much more determined effort is being made to boost

productivity, increase efficiency and allocate resources ration-"We're doing this systematically, because we have to. We have to streamline operations; we have no choice," one executive said. "We've got a good two-year head start." In line with this, the bank is achieving greater progress than its competitors in mechanising key services.

There is an overabundance of fixed assets (for example buildings), with the consequent opportunity of selling them off for interest-yielding cash. Finally, there are the benefits of an anticipated winding down of the heavy "extra expenses" incurred in making up for the deficiences of the early 1970s in pension benefits and other workforce-related costs.

If the mood at Bruxelles Lambert is somewhat cautious. that at Kredietbank is aggres-sively confident. Officials at all three banks-and outside experts too-agree that its un-challenged dominance in booming Flanders gives it a decided edge over its Wallonia-based rivals.

Kredietbank emphasises its profits record, which have risen over two decades from BFr 36m in 1950 to BFr 1.65bn last year. The bank's degree of profit-ability—the highest in Belgium and one of the highest in Western Europe-is largely attributed to the rapidly growing Flemish economy.

Kredietbank was also the first Belgian Bank to seek wholeheartedly the business of the general public, and was the first to send top-level representatives to the U.S. in the postwar years to attract dollars across the Atlantic. It has been more active on the Eurobond and foreign exchange markets

than its bigger competitors.

Belgium's dominant bank, though, is unquestionably the Societe Generale de Banque. Once labelled a slumbering giant, it now seems to have woken up. It was founded by the Dutch Royal family and was a success even before the Belgian State was founded in 1830. For nearly a quarter of a century it functioned as the young nation's effective central

## Crises

"We've gone through quite a few crises, and in recent years we've lost only a small share of the market—and this not so much to the other two big banks as to medium-sized and foreign institutions," said one Societe Generale executive.

Societe Generale ranks first in Euro-credits, and is active in 30 countries, either through direct affiliates or participation in joint ventures. Its consolidated balance sheet for 1979 was probably close to BFr 1,000bn—roughly equal to the Belgian State budget.
One claim that Societe
Generale de Banque makes—

is often contested by others.
"It has captive customers in some of the subsidiaries of Societe Generale de Belgique," one competitor said. If they disagree on some matters, Belgium's Big Three at

that it is entirely independent

of the giant holding company Societe Generale de Belgique

least seem to share a certain distrust of government. All, for example, looked askance at the State-supported Caisse Generale d'Epargne et Retraite (CGER), some charging it with unfair competition for public deposits "Sometimes I get the impression that every Belgian has a passbook with CGER," one disgruntled banker said.

The big private banks complained most, however, about the public sector's unending hirst for funds and its huge spending deficit, which they partly blamed for the weakness of the Belgian franc and for high domestic interest rates. Belgian banks lend proportionately more to the State than those in any other country in

Brent Bowers

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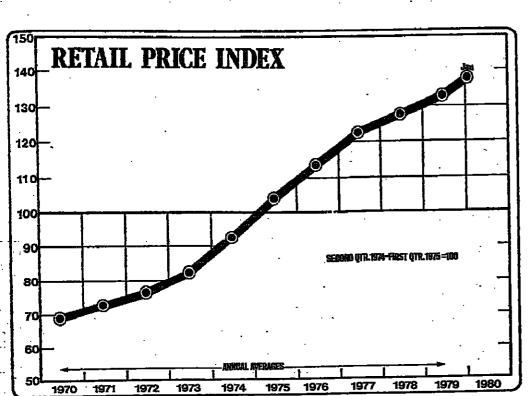
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# EMS tribulations for the franc

ON ANY reckoning the Euro-pean Monetary System (EMS) discount rate from 6.1 per cent has had a reasonably successful in mid-March, 1979 to 14 per first year. Exchange rate stability between member currencies and the European Currency Unit (ECU) has been cut by nearly two-thirds in comparison and two realignments within the system were accomplished without serious turmoil.

But a major—and ironical-feature of the first 12 months was that one of the currencies which suffered the most serious tribulations was the Belgian franc. By the end of 1979 Belgium's National Bank had employed an unprecedented BFr 113bn in buttressing the some partners in the EMS BFr 113bn in buttressing the currency so as to keep it within the system's permitted 2.25 per cent margin of fluctuation and central bankers are famed a devaluation.

the Community average of 6.4 per cent, and the economic out-

This has been pretty stiff medicine for a country to have in take through membership of a currency system which many if its senior official support it almost evangelical fervour. devalued by 3 per cent in Sep-Nevertheless the mood remains one of cheerful acceptance. But a Jacques Van Ypersele, chef ie cabinet to Belgian Prime is cabinet to Belgian Prime is conomies is underestimated. Minister Wilfried Martens, con-edes that the pressure on the franc during the last 12 months has been stronger than expected, largely because of the pected, largely because of the tensions created by the Dentsche Mark's appreciation against the dollar and because Belgium's relatively modest year on year inflation rate—4.5 per cent—proved a less important factor

than anticipated.

But the EMS, even at its oresent embryonic stage, satisies some very basic economic and political requirements for and political requirements for a country such as Belgium. Foreign trade is the equivalent of nearly 50 per cent of the country's Gross Domestic Product and no less than 40 per cent of this trade is with two close neighbours, the Netherlands and West Germany. Moreover, Belgium and the Netherlands have a fully open border for agricultural products. barder for agricultural products.

There is thus a very strong
Belgian requirement for as
much exchange rate stability as

possible, particularly between the Dmark, the Dutch guilder and the Belgian franc. Equally, there is a need for an external pressure capable of overcoming, when the need arises, a policy "immobilisme" which has periodically gripped the country during its 35 political crises of the last 40 years.

The truly noved feature of EMS, the so-called "divergence indicator" is politically and economically ideal for Belgium.

Essentially the divergence Essentially, the divergence indicator is first of all a signal of either impending weakness or excessive strength and is triggered when a currency reaches 75 per cent of its maxicentral rate. By agreement EEC heads of Government, there is a presumption that when the divergence indicator is crossed corrective action will be taken. This involves diversified interventions, domestic monetary policy measures, changes in cen-tral rates or "other measures"

of economic policy.

Although there is no clear definition of the corrective action to be taken—nor indeed is it mandatory to act at all— Belgium has chosen to regard the EMS agreement as a sort a set of obligations which the connay's politicians cannot subordinate to their

when the Belgian france

in mid-March, 1979 to 14 per cent a year later. The Government meanwhile stepped up its struggle to get a grip on public spending and during the course of the year produced a draft budget for 1980 projecting no increase in public expenditure in real terms. For 1981, the Government is aiming to cut its Government is aiming to cut its budget deficit from the BFr 92bn

envisaged this year to BFr 50bn. Thus the Belgians argue that some, if not all, of the desirable policy responses have now been made, and indeed were being made at a time last year when

cent margin of nuctuation and to avoid a devaluation. At the same time the Belgian Government has been forced into a progressive tightening of monetary and fiscal policies. Interest rates have climbed to record levels, Belgian unemployment at 9.2 per cent is way above ment at 9.2 per cent is way above the Community average of 6.4. problems of last year high-lighted a lack of coordination of intervention tactics between look is still set somewhere between uncertain and stormy.

Set somewhere central banks vis-a-vis the dollar. The Bundesbank's first dollar. priority for the last nine months has been to prevent the dollar rising too strongly against the D-mark and this in turn has

> and autonomy of action jealously guarded. Smaller countries can only follow," peevishly com-mented the National Bank of Belgium in its annual report for

1979.
While EMS may be a relative haven of currency stability in a world where norm the narvolatility is the norm, the par-ticular problems created by the dollar and U.S. interest rate policy since last October point to the need for moves to lower

The Council of Ministers asked the European Commission last June to produce some pro-posals which could lead to greater co-ordination of economic and monetary policies. Since then it has become clear that it is not only the tensions within EMS which demand better co-ordination between various national authorities but also the fact that the system itself is hardly the degree of economic convergence hoped for.

## Difference

The best illustration of this is the widening gap between inflation rates of the countries inflation rates of the countries participating in EMS. Last year the difference between the best. West Germany, and the worst. Italy, was 11 percentage points. This year the gap is expected to be even wider and if the EMS were working perfectly, the line applied to be in lire could be expected to be in trouble, forcing the Italian authorities into tightening a monetary policy which senior Italian businessmen acknow-ledge is now far too lax.

But the EMS exerts no external discipline for Italy because the lira remains one of the strongest currencies in the system. The reason remains the fact that for the time being inflation differentials are much less important in determining currency values than balance of

Now it could be argued that the Belgian franc's difficulties within the EMS owe something to the fact that its value was

to the fact that its value was pegged too high when the system started. The Belgium and Luxenbourg current balance was consistently in surplus until 1976 when it incurred a modest BFT 1.6bn deficit.

Since then, however, all modesty has disappeared under the stress of rising oil prices and last year the current account deficit leaped from BFT 28.3bn in 1978 to BFT 85bn. Little significant improvement is expecnificant improvement is expec-ted this year and the Belgian franc has been rocky through out the first quarter.

# The Luxembourg connection

THE PROVOCATIVE, perhaps mildly malicious, observer might be tempted to suggest that the fatest growing and most attractive Belgian financial centre these days is not in Belgium at all, but in Luxem-

it is uncomfortably close to the truth. For the tiny land-locked Grand Duchy of Luxembourg. just 200 km to the south of Brussels, has in the past decade become an international bank ing phenomenon that has close if not exactly clearly defined links with Belgium. It is that lack of clarity that makes gian investors use of sembourg a touchy subject.

Belgian banks first moved heavily into Luxembourg in the late 1940s, when they provided the launching pad for its banking take-off of 20 years later.
They continue to play a major
part in Luxembourg's development as a major centre for the ment as a major centre to the Euromarket, yet the ambivalent relationship between Belgium and Luxembourg that stems from their economic union further complicates the Belgian banks' role there.

For Belgium and Luxembourg are partners in an economic union that gives them a common currency—Luxembourg prints only low denomination franc notes of its own—and groups their foreign trade and payments positions as one. For all the international banking names that now dominate the 108 banks active in Luxembourg to which the Belgian problem becomes more general. Only Italy is expected to register a today, the Grand Duchy has no central bank of its own.

finally be staved off partially

depends, however, on the extent

This, together with the Gov-

ernment's moves to cut its bor-rowing requirement, should help

the Belgian franc. Perhaps a

its accustomed place in the sun.

balance of payments surplus this year, while most others in the EMS, notably West Ger-many, are expected to suffer a sharp deterioration in balance of But while there is this monetary marriage, the Belgian the fact that there are no work-able controls on currency movements between the countries that has meant that Luxem-bourg's banks, with their stringent banking secrecy laws, can be a magnet for Belgian more broadly based Government, including perhaps the Liberals, is also what is needed to restore the Belgian franc to

Belgians are in any event reputed to keep a high proportion of private savings outside the country and out of reach



The city of Luxembourg and its scenic surroundings

of the tax man. The attractions of Luxembourg's banks, where non-residents' accounts are liable to neither local taxes nor outside inspection, are thus clear enough.

The Belgian authorities are understandably sensitive on the topic, although realists sometimes suggest that it is preferable for money that Belgians could just as easily deposit in, say, the Netherlands, to remain

inside the masse monetaire of the Belgian-Luxembourg economic union. They would even add that if some device were found to clamp down on and Luxembourg Governments the clandestine transfer of operate very different banking funds, then Belgians would and fiscal policies. Taken with simply deposit savings elsethe fact that there are no work- where at the expense of the economic union's joint balance

a crucial factor in determining the way Belgium looks at the thriving international banking centre on its doorstep. Recently Belgium's Banque Nationale—the central bank in Brussels-paid its first tribute to Luxembourg with a reference to the positive con-

tribution it now makes to the payments position.

The growth in Luxembourg's banking sector and in the volume of Eurocurrency loans handled has been little short of dramatic. Only 15 years ago Luxembourg's financial sector numbered just 20 banks, with sheets balance LuxFr 47.5bn. By the early 1970s the number of banks had nearly doubled and their combined balance sheets totalled around Luxfr 1,000bn. By the end of last year that balance sheet mark had passed

## Unlikely

That last total equivalent of about \$100bn and compares with the \$280bn com-bined balance sheet of all foreign banks operating in the City of London. But although Luxembourg has achieved a hundredfold growth in banking bankers in the Grand Duchy point out that it is unlikely ever to rival centres such as London because of the

lack of financial infrastructure. Luxembourg's banks may be the Grand Duchy's principal source stimulus for economic growth, but the absence of a strong stock market, merchant banking services and a spread of secondary markets means that it fails to rival Brussels as a services and Belgian financial centre.

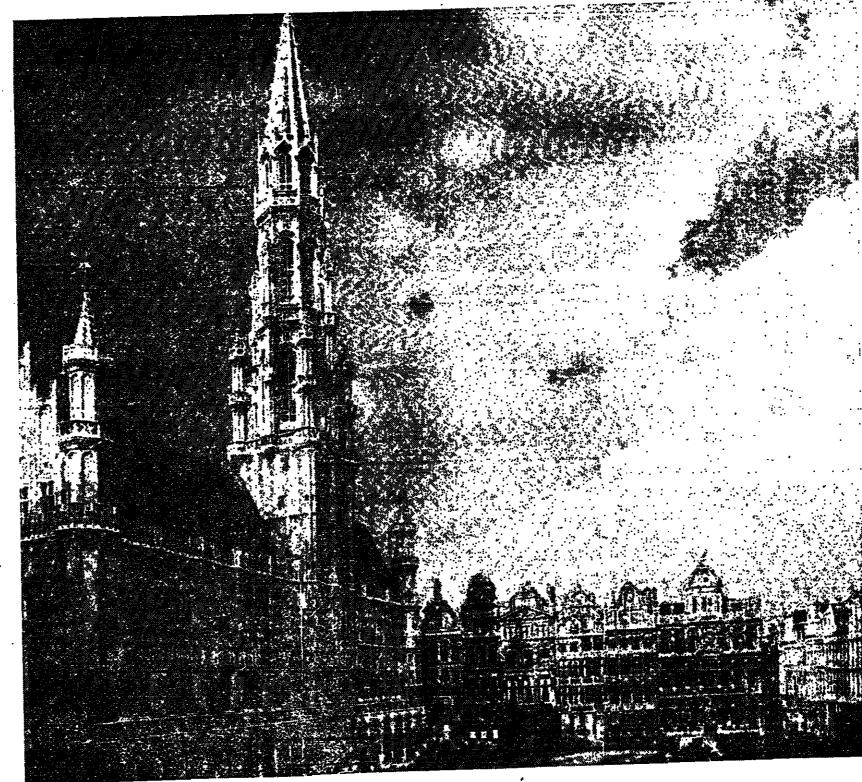
In Belgian eyes, though, Luxembourg remains a somecontroversial banking wnat confloversial banking centre. To some extent it is the involvement of Belgium's Big Three banks — Societe Generale de Banque, Banque Bruxelles Lambert and Krediethark inside the Grand Duchy bank-inside the Grand Duchy precise status of their Luxembourg operations is not easy to define. At best it has created mystery where probably none is

justified All three moved into the Grand Duchy in a substantial way when it became clear after World War II that Luxembourg's own small banks could savings and retail handle

foreign investment programmes would bring. Kredietbank was in the forefront of that move and brought with it its growing

emphasis on retail banking. Societe Generale de Banque and Banque Bruxelles Lambert both have minority interests in their respective Luxembourg operations, while Kredietbank's stake in its Luxembourg affiliate is a majority one of undisclosed size. Perhaps the uncertain re-lationship that exists across the Belgian-Luxembourg frontier is best illustrated by the fact that not long ago the Belgian regulanot long ago the Belgian regula-tory officials of the Commission Bancaire felt the need to warn the Belgian banks against directing certain categories of their domestic business toward Luxembourg. Advising Belgian investors on the advantages of investors on the advantages of depositing funds in the Grand Duchy is an offence that could technically lead to a Belgian

Giles Merritt



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SWEDISH BANKING

# SHB calls for end to restrictions

BY YICTOR KAYFETZ IN STOCKHOLM

SWEDEN'S 40-year-old currency restrictions should be abolished, along with other outmoded barriers to Swedish banking abroad and operations of foreign banks in Sweden, a top executiva of Svenska Handelsbanken told the annual general meeting.

Sweden's big three commercial (8216m), up would probably benefit from the liberalisation of currency rules because of growing international banking business. Swedish banks ought to be Skr 200m ahead of the state-partitled to open branch offices abroad instead of having to make expensive investments in general meeting.

Mr. Jan Ekman, one of SHB's

Court win for

NEW YORK — A Federal Court judge denied a request

for a preliminary injunction sought by the U.S. Government

to bar Siemens Corporation, a

division assets of G. D. Searle.

the acquisition would tend to

lessen the competition in the

market for specialist diagnostic

Profits dip at

By James Forth in Sydney

packaging group, has declared

an unchanged interim dividend

of 8.5 cepts a share, despote

a 10 per cent fall in profit from

A\$ 4.3m to A\$ 3.8m (U.S.\$ 4.1m). The result contrasts

siderably, to show a small loss

of AS 49.000.

J. Gadsden

Reuter

The Government alleged that

Siemens in

Searle deal

larger assets than SHB.

r. Jan Ekman, one of SHB's Mr. Ekman said that recent managing directors, said events in Britain proved what that in Britain "the abolition of we had long suspected here in currency regulations has Sweden—that currency regulacurrency regulations has Sweden—that currency regulaneither hurt nor helped the tions in the traditional sense
country's balance of payments." practised here are meaningless
SHB last year recorded the in the internationally dependent
highest pre-tax profit of economy we now live in."

In the long run. Britain Swedish banks, he said, would probably benefit from If foreign banks could the liberalisation of currency more freely in Swede

abroad instead of having to make expensive investments in newly-created foreign sub-sidiaries, and the same should mission to buy shares in bank.

If foreign banks could operate more freely in Sweden "this would offer a new opportunity for the Government to place long-term housing bonds, which the domestic banking system has

such difficulty absorbing."
SRB's other managing director, Mr. Tom Hedelius, said that sidiaries, and the same should the board had decided to alloapply to foreign banks wishing cate SKr 32m this year to the to operate in Sweden, Mr. Ekman declared. Such a step would not mean that foreigners would necessarily be given permission to have shares in the sidiaries. The same shares in the state of the stat

## EUROCREDITS

## Libor link for Hungarian loan

BY PETER MONTAGNON

THE \$250m, seven-year Eurocredit currently being arranged for the National Bank of Hungary is to contain an subsidiary of the West German manufacturer, Siemens AG, from purchasing the diagnostic optional linking of the interest rate to Libor. This was intro-duced by the loan's manager. Manufacturers Hanover, after the U.S. economic measures

announced a week ago.

The loan terms originally provided for a spread of ½ per cent over U.S. prime rate for have the alternative option of a 4 per cent spread above Libor J. GADSDEN AUSTRALIA, the throughout.

Manufacturers Hanover was the Soviet invasion of Afghaninot available for comment over stan. the weekend, but international bankers now generally expect the deal to be completed quickly with details of the management group to be published late this week.

the difficulty in executing primethe first two years rising to a based deals given the current with Eastern Enthereafter. However, interest state of the U.S. money markets, interested bank, by international banks in a In addition, this loan was That this policy by international banks in a In addition, this loan was prime-based deal proved limited viewed with considerable of encouraging trade and business the alternative artists of beauty of the alternative artists of the considerable of the alternative artists of the considerable of the alternative artists of the considerable of th

In what appears to be a slightly unusual move, the managers of the loan solicited the support of the U.S. State Department in reassuring poten-

tial participants about the poli-

tical aspects of the deal. International bankers say that the decision to introduce a Libor that the State Department element into the loan underlines offered to clarify its policy on trade and business relations with Eastern Europe to any

## Good terms for Bank of Indonesia

BY OUR EUROMARKETS STAFF

with that of its rival. Conaccelerated, the directors said, six years, rising to per cent adding that results of the thereafter. Gadsden-Pacific can making A manda

partnership had improved con-

six years, rising to i per cent. This loan provides yet respects indonesia can be con-thereafter. another example of a borrower sidered a special case. It has A mandate was awarded last who is still able to obtain funds oil, the economy is performing week to Bankers Trust. Chase at or near last year's terms. The very well at present and there Manharton, DG Bank and Llords conditions are identical to those is a relative scarcity of Indo-Bank International to manage on the \$425m, 10-year refinanc- nesian loans on the market.

deal pointed out that in some

## CURRENCIES, MONEY and GOLD

## Sterling weathers the storm

BY JONAS CROSLAND

Last week's U.S. anti-inflation package gave the dollar a much the dollar support package was. However against European cur-side lines. While the authorities package gave the dollar a much the dollar support package was needed shot in the arm and to mark up the U.S. unit—it pushed it to its best level of touched its best level on Monday reached DM 4.12 on Tuesday the straining being so strong, it the year. The traditionally strong since July 1978 against the Swiss against the D-mark, sharply up remains a fact of life that as currencies, the Swiss franc and franc—heavy and sustained cen-the D-mark were particularly tral bank intervention was of DM 4.06. Against the Italian tain their current edge over affected, a reflection of the necessary to control the rise. lira it rose to its highest level other European rates, and North large difference in interest rates and by the end of the week, the between the three countries, as a result of the latest interest higher levels. rate war. The dollar is currently Sterling's re influenced to a large extent by changes in Euro-dollar rates. before trading slightly above changes in Euro-dollar rates.

GOLD

While the initial reaction to this level for most of the week, of England stayed largely on the

ever at L1,918 compared with Sea oil provides underlying dollar was fairly steady at these higher levels.

L1.384 on the previous Friday. strength, sterling will continue to higher levels.

All this was achieved at little hold its present position in Sterling's reaction was similar cost. While the dollar's new foreign exchange markets, even trading within a fairly narrow at the beginning at least, and found strength had prompted though some may feel that the band, with day to day movements on Monday it fell nearly 3 cents widespread intervention and the economic position of the UK at lifting of currency controls by the moment may not warrant the Swiss authorities, the Bank such a position.

Note Rates

29,05-29,25 68,30-68,80

12,78.12,86 9,49.9.55

3,861: 3,881: 2,183-2,191 483: 51::

## OTHER CURRENCIES

	Gold Bullion (fine o	uhce		Mar. 21
ose	.£241.244; .£245.246. .£244.941; .£240.132;	\$5\$0-\$56 \$5\$0-\$56 \$5 <del>6</del> 1 \$561	(£250,253, (£249); 352, (£254,768) (£254,942)	Argentina Peso Australia Dolfar Brazil Cruzeiro! Finland Markka
rugerrand	Gold Coins (£2491; .2521) (£2421; .2471), (£611; .651) (£681; .701) (£691; .711)	\$565.568 \$563.568 \$138.141 \$154.157 \$154.157 \$159.142 \$675.680 \$540.550 \$690.700	(£256-259) (£256-259) (£256-259) (£623-6454) (£70-72) (£70-72)	Greek Drachma Hong Kong Dollar Iran Rial Kuwait DinanKD. Luxembourg Frc. Malaysia Dollar New Zoaland Dir. 2 Saudi Arab, Riyal, Singapore Dollar Sth. African Rand U A.E. Dirham
O Eagles — i Eagles —				·

## THE DOLLAR COOT AND FORWARD

	Day's			`~	Three	`•
March 21	aproad	Close	One month	p.a.	hioriths	E.4
UKI	2.1780-2.1940	2.1790-2.1800	0,20-0.30c dis	-1 38	0.47-0 57dis	
relandf	1 9740-1.9790	1.9780-1.9790	0,05c pm-0.05 dis	_	0,20-0.10 pm	
Canada	1.1800-1.1828	1.1825-1.1528	0,45-0.35c pm	4 06	1,15-1.05 pm	
Nethind.	2.0545-2.0580	2.0570-2.0580	1.68-1.58c pm	9.51	4.28-4.18 pm	8.22
Belgium	30.32-30.36	30.34-30.36	5-1c pm	1.19	8-3 pm	0.73
Danmark	5.8630-5.8790	5.8775-5.8790	1,35-1.85ore dis	-3.27	4.00-4.50drs	-2 89
W. Ger	1.8730-1.8805	1.8785-1.8795	1.78-1.68pl pm	11.05	4,58-4.48 pm	9.64
Portugal	50.12-50.30	50.20-50.30	par-10c dis	-1.19	10pm-30drs	-0 B0
Spain	69.45-69.98	69.37-69.32	30-45c dis	-6.44	80-105 dis	-5.29
Italy	873.40-874.00	873.70-874.00	par-0 50 lire dis	~0.34	1.E0-2.30dis	-0.94
Norway	5.0730-5 0875	5.0760-5 0780	2 20-1.70pre pm	4.61	\$ 60-5.10 pm	4.22
France	4.3625-4.3715	4.3680-4.3700	2,00-1.85c pm	5.29	5.25-5,00 pm	4.69
Sweden	4.3875-4.3920	4.3675-4.3830	2 05-1.85ore pm	5.33	5,85-5.65 pm	5.24
Japan	248.70-249.30	248.95-249.05	1 00-0.85y pm	4.46	2.55-2 40 pm	3 97
Austria	13.42%-13.44%	13.43%-13.44%	10 50-9.50gra pm	8.93	31.25-23,75pr	n 8.93
Canto	1 7710 1 7020	1 7805_1 7515	2 CG-2 TOC pm	15 23	5 50-5 40 am	17.24

f UK and Ireland are quoted in U.S. currency. Forward promiums and discounts apply to the U.S. dollar and not to the individual currency.

## THE POUND SPOT AND FORWARD

7630-1.7640 0.8090-0.8095 United States. .. 8.09-8.19 3,7350-3.7380 Yugoslavia... Rate given for Argentina is free rate.

101,40-102,40 45.50-47.00 Denmar 6.52-8.53\u00eda 5.9030-5.9050 France, 88,109-90,193 40,20-40.35 German, 11.01\u00eda 11.03\u00eda 5.0500-5.0550 Italy...

March 23	Day's spread	Close	One month	p.a.	Three months	p.,
ΰs .	2.1730-2.1940	2.1790-2.1890	0.20-0.30c dis	- 1.38	0.47-0.57dis	-0.9
Canada	2.5730-2.5835	2 5740-2.5750	0.90-0 20c pm		2.00-1,85 pm	2.9
Nethlad.	4,47-4.52	4.48-4.49	3121-c pm		8½-7½ pm	7.2
Belgium -	66.05-66.60	66.10-66.20	5c pm-5 dis		par-10 dis	-0.3
Denmark	12.75-12,39	12.82-12.83	4'2-5 sore dis		91 <sub>4</sub> -123, dis	-3.4
ltgland	1.1005-1.1076	1.1015-1.1025	0.12-0.07p pm		0.28-0.20 pm	
∵/ Ger	4 03-4.12	4.0914.101.	34-24pt pm		93-61 pm	8.6
Portugal	109 10-103.70	109.25-109.45	5-35c dis		5-90 dis	-1.7
Spare	151.40-152.90	152.25-152.35	60-105c dis			-6.1
iraly	1,895-1,914	1,904-1,905	1:3: fire dis		74-94 dis	-1.8
Norway	11.052;-11 14:,	11.06-11.07	44-23 ore pm		10-8', pm	3.3
France	9.511-9.581	9.52-9.53	312-21:c pm		912-B12 pm	3.7
Sweden	9.55-9.63	9.56-9.57	3 2 2018 pm		11-10 pm	4.3
חניםיך	540-548	542-543	1.60-1.40y pm		4.20-3 80 pm	2.5
Austria -	29.25-29.45	29.27-29.32	20-15gro pm		60-50 pm	7.5
Switz.	3.86-3.90	3 82-3.89	474-3 ac pm		111 <sub>6</sub> -10-5 pm	11,0
Bci S	gian rate is le	or consumble	Iranes Finance 2.995 dis 12-m	al Irano	68 50.68 60	

## **EURO-CURRENCY INTEREST RATES**

The following nominal rates were quoted for London dollar cartificates of deposit: one-month 1780-1790 per cent: (pre-months 1880-1890 per cent, should be sent to the control of the cent 
Mar, 21	Sterling	U.S.Dollar	Canadian Dollar	Dutch Guilder	Swiss Franc	West German Mark	French Franc	ltalian Lira	Asian S	Japanese Yen
T\$hort term	17-1714 1714-1734 1756-1715 18-1814 18, 1-1814 1712-1724	16-1611 16-2 16-3 18-19-3 18-3-1913 18-3-1913 17-17-17-2	814.912 814.912 1512.1356 1412.1412 1414.1412 1452.1513	25,-84 6-61; 9 5-9-; 101;-105; 115;-111; 13-121;	79-114 5-51; 414-41; 513-639 613-7 634-63;	7: 7: 8:81a 8:1-83a 9:-9 9:3-959 93:959	12: <sub>1</sub> -15 12: <sub>2</sub> -13: <sub>2</sub> 13: <sub>2</sub> -13: <sub>2</sub> 14-14: <sub>2</sub> 14: <sub>2</sub> -14: <sub>1</sub> 16:15: <sub>2</sub>	12:14 15:2:17:4 18:1:19:1 18:1:20 19:1:20 21:23	161:-161: 18.:-18-; 181:-19 181:-19 174:17'-	12-12-2 13-5-13-5 14-5-14-5 14-14-5 14-14-5 13-6-13-1

## LONDON MONEY RATES

Mar. 21 1980	Sterling Cortificate of deposit	Interbank	Local Authority deposits	Local Auth. negotiable bonds	Finance House Deposits	Company		Treasury:	Bank Bank Bank	Fine Trade Bills &
Overnight		15-18				174-1742	16-17			
2 days notice	·	· -	175: 18	• - !	_			- :		_
7 days pr	~		~	:		, <b>-</b> -	· ~-	_	_	
7 days notice	-	1 1 17 0	177c. 1814		1811	177a 18	16:4-16; -		_	_
One month	1716.174;	175, 17:	181, 181,	18% 18%	1814	1813.1814		16 16		18:,
Two months	17 6 17 4			19 181-	18::	~	låżę	15!a-16		18::
Three months.	17 ig. 173;	17 . 17	1812.1842	183, 184	1834	ود 18 دا 3 (	161:-16%	16, 16,	17:-	1732
Six months	17 17	1715-175g	184.185	18 17 12	18	. 18Կ	-	~ .	1612	16:-
Nine months .	16 9-15:	17.1712	~ .	173s-173e ·	171:	! -			_	_
One Year	16 g 16 :	16, 16	17 , 181,	1738 17	1714	18		~	-	_
Two years	- :		167 1712		~	: <del>-</del>	_	~	-	_

Local authorities and linance houses seven days' notice, others seven days fixed, \*Long-term local authority mortgage rate nominally three years 16-16% per cent: lour years 16-16% per cent: five yours 15%-16% per cent. OBank bill rates in table are buying rates for prime paper. Buying rates for four-month bank bills 17%-17% per cent; four-month trade bills

Approximate selling rates for one-month Treasury bills 15th,-16 per cent; two-months 15th, per cent three-months 18th,-16th per cent. Approximate selling rates for ano-month bank bills 17th-17th per cent, two-months 17th per cent, three-months 17th per cent, and three-months 17th per cent. Finance Houses Base Rates (published by the Finance Houses Association) 13 per cent from March 1, 1978. Clearing Bank Deposit Rates for sums at seven data: notice is not cent. Clearing Bank Rates for lending 17 per cent. Treasury Bills: Average tender rates at discount 16 2071 per cent.

## **CURRENCY RATES**

Mar, 21	Bank rate	Special Drawing Rights	European Currency Unit
Sterling	17	0.580067	0,612775
U.S. &	13	1.26762	1.33891
Canadian S .	14	1,499-7	1,58193
Austria Sch	6-01	17.0470	17.9950
Belgian F	24	38.459è	40.6394
Danish K	15	7.44283	7.86143
D'Mark	7	2.58008	2.51314
Guilder	910		2.75374
French Fr	912	3,53506	5.84502
Lifa	15	1107,58	1169.88
Yan	g	315.828	333,215
Norwen, Kr.,	. 9	6,44830	6.80034
Spanish Pts	8	88.5345	93 5632
Swedish Kr.		5.56549	5.87810
wiss Fr	3	2.25281	2.37965
	~ -~	<u>-</u>	

# \*Freemans (Ldn. SW9) ... Mar. 31 Final 1.519 Gerrard and Mat. Dis... Apr. 25 Final 5.124 Gibbona Dudley... Mar. 22 Final 2.564 Gibson Apr. 9 Final 2.564 Gisxo ... Apr. 9 Final 6.7 \*Giynwed ... Mar. 31 Final 6.7 \*GRE ... Apr. 9 Final 6.941 GKN ... Apr. 5 Final 16.845 Hambro Life Assee... Apr. 9 Final 17.802 Hammerson Hammerson Prop....Apr. 27 Final 6.097 "Harris Queensway...Apr. 23 Final 4.5

Hawker Siddelay ... Apr. 11 Final 2.4578

Distilleries ... Apr. 8 Int. 0.55

House of Fraser...Mar. 29 Final 3.437 House of Final 1.635

Howden (Alex.)...Mar. 27 Final 4.5

Bowster . ....Apr. 10 Final 3 952

Printing Agr. 5 Final 2.4

\*British

Sugar...May 8 Int. 1.815

Brown Boven

Kent...Apr. 5 Final 1.2

Burton ....Apr. 10 Int. 3

\*Cape Inds...Apr. 1 Final 5.869

\*Carpets Int...Mar. 27 Final 5.325

\*Charterhse...Mar. 27 Final 0.9226

Coates Bros...Mar. 28 Final 1.731

\*Collins

"(Wm.).....Mar. 24 Finel 3.094 Comb. Eng. Stores....Apr. 10 Final 1.9055 Coral Lersure....Apr. 12 Final 5.7 Croda Int.....Apr. 15 Final 1.346 Currys ......Apr. 17 Final 4.0692 "Danish

"Danish Bacon...Apr. 9 Final 3 56
Dewnay Day .. Mar. 21 Int. 0.73
Dunlop ......Apr. 19 Final 2.65
"Eagle Star .....Mar. 25 Final 3 4909
"Empire

Metal...Mar. 25 Final 2.345 Farnell Elecs...Apr. 24 Final 4.79

Minaep.....Apr. 24 Final 3.0

\*Expanded

Stores......Apr. 9 Final 2.605

Printing ,Apr. 5 Final 2.4

\*Harrisons Miysn. Ests...Mar. 26 Int. 1.5

## because of the uncertainty apparently not fully appreciated prevailing over U.S. relations by the banking community with Eastern Europe following when the loan was announced.

tainers, which lifted earnings THE CENTRAL Bank of Indo20 per cent in the first-half, nesia is raising a \$300m 10 year is seeking on behalf of the
Depreciation on three-piece Eurocredit with a margin over Government to finance developHowever, bankers close to the can making equipment had been | Libor of ; per cent for the first ment of three oil refineries.

## RECENT ISSUES

## EQUITIES

sue rice b:	Amount Paid Up Latest Renutio. Date		9/80 Low	Stock	Closing	* + or	Amount	Covered	Yiold P.E.
	F.P. 21/8	: 113	10 170 29	Berkley Exploration Child Health Res'ch Keep Inv. Trust Sp. Lon. Merc'tSecs. Def Roche Plant 10p WebberElctCom12.5	.101 111 d <sub>i</sub> 70	ų	_	2.7	5.8: 7.2 8.8.10,2

Ì				IXE	v	MIERESI SIUCNS	
	Issue Price P	Amount Pald Up	Latest Renume Date	1979 High		Stock	Prios 2
	_	F P.	15:2 30:5 2:9 29:5	122p 98p 112 83e	100p 93 111 7	Aurora 3,85g Cum. Pref	120p + 2 931g 111 7 - 1g 951g + 1g

## "RIGHTS" OFFERS

issue 32		8 1 1		197	9/80	Stock	Closing prices pf	+ or					
p;	<b>48</b>	•"	<b>2</b>	High	Low		8=	<u> </u>					
185	F,P.	21/3	2/5		159	AGB Research	165	+3					
828.58		-	}	15pm		Bank of Montreal	2pm	1					
330	F.P.	-	l <del></del>	391		Cluff Oil	315	j— <u>5</u> .					
3512	F.P.	22/2	28/3			Edwards (Louis C.)	58pm	+2					
60	F.P.	3/1	24/1	845	660	Hammerson Prop. A	790	*****					
60cts	Nil	-	·	485pm	190pm	Pancontinental	290	į+5					
58	NII	-	J J	24g pm	1pm	United Biscults	2pm	j					

Renunciation date usually last day for dealing free of stemp duty. b Figures based on prospectus estimate. g Assumed dividend and yield. u Forecast dividend: cover based on previous year's earnings. F Dividend and yield based on prospectus or other official estimates for 1979. Q Gross. T Figures assumed. Cover allows for conversion of shares not now ranking for dividend or ranking or dividend or ranking and called 1 Issued by tender. I Officed to holders of ordinary shares as a "nights." "slaved by way of capitalisation. \$\$ Reintroduced. If issued to connection with reorganisation merger or takeover. If introduction. I issued to former preference holders. I Allotment letters for fully-baid). • Provisional or partly-baid allotment letters. \* With warrants. †† Unlisted security. †† lequed as units comorising 2 participating preference and 1 and, share at R3.50 per unit + Lealings under source?

## BASE LENDING RATES

Amro Bank 17 %	C. Hoare & Co 717 %
American Express Bk. 17 %	Hongkong & Shanghai 17 %
Henry Ansbacher 17 %	Industrial Bk. of Scot. 171%
\ P Bank Ltd 17 %	Keyser Ulimann 17 %
Arbuthnot Latham 17 %	Knowsiev & Co. Ltd 181%
Associates Cap. Corp. 17 %	Langris Trust Ltd 17 %
Banço de Bilbao 17 %	Lloyds Bank17 %
Bank of Credit & Crece. 17 %	Edward Manson & Co. 18 %
Bank of Cyprus 17 %	Midland Bank 17 %
Bank of N.S.W 17 % #	Samuel Montagu 17 %
Banque Belge Ltd. 17 5, 7	Piorgan Grenfell 17 %
Banque du Rhone et de	National Westminster 17 %
la Tamise S.A 1710	Norwich General Trust 17 %
Barclays Bank 17 %	P. S. Refson & Co 17 %
Bremar Holdings Ltd. 18 %	Rossminster 17 %
Brit. Bank of Mid. East 17 %	Ryl. Bk. Canada (Ldn.) 17 %
rown Shipley 17 %	Schlesinger Limited 17 %
Canada Perm't Trust 18 🐾	E. S. Schwab 17 %
Cayzer Ltd 17 %	Security Trust Co. Ltd. 18 %
Cedar Holdings 17 %	Standard Chartered 17 %
■ Charterhouse Japhet 17 %	Trade Dev. Bank 17 %
Choulartons 17 %	Trustee Savings Bank 17 %
C. E. Coates 17 %	Twentieth Century Bk. 17 %
Consolidated Credits 17 %	United Bank of Kuwait 17 %
Co-operative Bank 17 %	Whiteaway Laidlaw 171%
Corinthian Secs. 17 %	Williams & Glyn's 17 %
The Cyprus Popular Bk. 17 %	Wintrust Secs. Ltd 17 %
Duncan Lawrie 17 %	Yorkshire Bank 17 %
Eagli Trust 17 %	Members of the Accepting Houses
	Committee.
First Nat. Fin, Corp 181%	7-day deposits 15%, 1-month
First Nat. Secs. Ltd 18 % Robert Fraser	deposits 154%.
Robert Fraser	7-day deposits on sums of [10,000
Greyhound Guaranty 17 %	and under 15%, up to £25,000 15% and over £25,000 51.
Grindlays Bank \$17 %	deposits over £1,000 ****
S Guinness Mahon 17 % s	
	Demand Supusits 137s.
COPAL INDEX. Co.	- 106 (2) / 5)

CORAL INDEX: Close 426-431 (-5)

I.G. Index Limited 01-351 3466. 29 Lamont Road, London SW10 0HS. September Sterling 2179-2189 Tax-free trading on commodity futures.
 The commodity futures market for the small investor.

## LOCAL AUTHORITY BOND TABLE

	Anthority telephone number parentheses)	in	Annual gross interest	pay-	t Minimum sum	Life of bood
}	•		%		£	Year
	vsley (051 548 6555)		•	i-year	1,000	1 .
Redb	ridge (01-478 3020)		. 14,	}-year	200	2-3
Redb	oridge (01-478 <b>30</b> 20)		. 14	}-year	200	5-6

# COMPAGNIE BANCAIRE

Date ment last

Johnson ... Mar. 28 Finel 4.11015

\*Kleinwort Senson...Apr. 2 Final 3.105!
\*Kleinwort Senson...Apr. 2 Final 3.55
\*Ladbroke ....Apr. 10 Final 4.15
\*Lard Go. ....Apr. 2 Final 1.52
\*LASMO .....Mar. 25 Final 0.6
\*Law Land ....Apr. 3 Results due
\*Legal and
Gen .....Mar. 25 Final 4.194
\*Littlex

\*Lifley (F. J. C.) Apr. 2 Final 1.675 London Brick...Apr. 5 Final 2.130 \*Low and Bonar.....Mar, 31 Final 8.16 \*Lucas Inds....Mar, 27 Int. 2.567 Menzies (J.)...Apr. 24 Final 2.12 Minet .................Apr. 10 Final 1.4133 \*Morgan

Ocean Transport ..Apr. 2 Final 4.393

Pearson ...Apr. 18 Final 3.684
Pearson (S.)...Apr. 18 Final 4.9956
Phoenia

Phoenix
Assce ...Apr. 4 Finel 6.445
Portals .....Apr. 11 Finel 4.846
\*Prudential ....Mar. 25 Finel 5.263
RMC .....Apr. 19 Finel 3.91
\*Packit and Colman .Mer. 25 Finel 6.653

Reed (Austin)....Mer. 29 Fmal 3.051 Revertex .....Apr. 23 Fmal 2.27 Rockwers ....Mar. 21 Final 3.67

owntree Mackintosh .. Apr. 9 Final 8.5

\*Rugby Prtind. Cament...Apr. 14 Final 2.093

Semuel Props...Mer. 29 Int. 1.0
"Scottish Met.
Prop...Mer. 28 Int. 0.9

Selection Trust...Apr. 10 Final 10.84

Senior Engineering...Apr. 15 Final 0.6816
Simon Eng...April 25 Final 6.085
\*Slough Ests...Mar. 25 Final 1.529
\*Smith

\*Smith (W. H.)...Apr. 16 Final 2 34
\*Smiths Inds....Apr. 15 Int. 3.6138
Stendard Chartered...Apr. 18 Final 7.706
\*Sun Alliance...Apr. 2 Final 11.505
\*Tarmac .......Apr. 29 Final 6.234
Taylor
Woodrow...Apr. 5 Final 6.883

\*Telophone Rentals ...Apr. 30 Final 4.802 Vickers ......Apr. 26 Final 5.984 \*Willia Faber ...Apr. 2 Final 6.84

\*Wolf Elect. Tools...Mar. 27 Final 0.789

\*Yorkshire Chems....Mer. 27 Final 2.44

\* Board meeting intimated. † Rights issue since made. † Tex tree § Scrip issue since made. 9 Forecast.

Peachey Property...Apr. 4 Int. 1.0

Incorporated in France with limited liability Regd. Office: 5 Avenue Kléber, 75116 Paris.

NOTICE OF ANNUAL GENERAL MEETING Shareholders of Compagnie Bancaire are informed that the Annual General Meeting will be hold at 3 p.m., Wednesday 16th April, 1980 at the Company's registered office. 5, Avenue Kléber, Paris 16ème, in order to consider the following agenda:

-The Report of the Board of Management.

- The Report of the Supervisory Board. The general report of the Commissaires aux Comptes.
 The special report of the Commissaires aux Comptes.

relating to agreements contemplated by article 143 of the Law of 24th July, 1966. -The examination and approval of the Balance Sheet and

Accounts for the financial year 1979.

The appropriation of profits and the fixing of the dividend

for the financial year 1979. The appointment of two Commissaires aux Comptes.

Authorisation to the Board of Management to issue bonds.

either in france or in foreign currency, not exceeding a total of two thousand million francs. Any other business.

Holders of registered shares will be admitted to the Meeting on request, having supplied proof of identity, provided that their names have been entered on the Company's transfer register at least five clear days before the date of the Meeting. Holders of bearer shares must, at least five clear days before the date of the Meeting, deposit at the Company's Registered

Office either their shares or a certificate of deposit issued by the bank, financial establishment or stockbroker with whom they have been deposited. Shareholders who wish to attend the Meeting are asked to

request an admission card beforehand from the Company. Shareholders may appoint proxies to attend and vote on their behalf. A proxy must be the shareholder's spouse or another shareholder. If a proxy form is returned duly signed but without the appointment of an individual as the proxy, it will be placed at the disposal of the Commissaire du Gouvernement to be voted at his discretion. In order to vote against a resolution it is necessary to attend the Meeting in person of to appoint a proxy who votes against the resolution.

INVEST IN 50,000 BETTER TOMORROWS! 50,000 people in the United Kingdom suffer from progressively paralysing MULTIPLE SCLEROSIS—the cause and cure of which are still unknown—HELP US BRING THEM RELIEF

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Tokyo Pacific Hidgs. (Senbeard) N.V. Inimis. Management Co. N.V. Curacao. NAV per share March 17 USSS2.64.

305.

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Lleyds Bk. (C.I.) U/T Mgrs. P.O. Box 195, St. Helker Jacob

0481 26741 Tokyo Pacific Holdings N.V.
intmis Management Co. N.V., Carocan.
NAV per share March 17 US\$70.77. Providence Capitol Life Ass. (C.I.) 90 Box 121, St Peter Port, Guernsey 0481 2672679

Prices at March 19. Next dealing March 2h.

Chest Found Magnitud. (Jersey) Ltd.

PO Box 194, St. Heber, Jersey.

Osat 27441

Osat 195, St. Heber, Jersey.

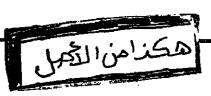
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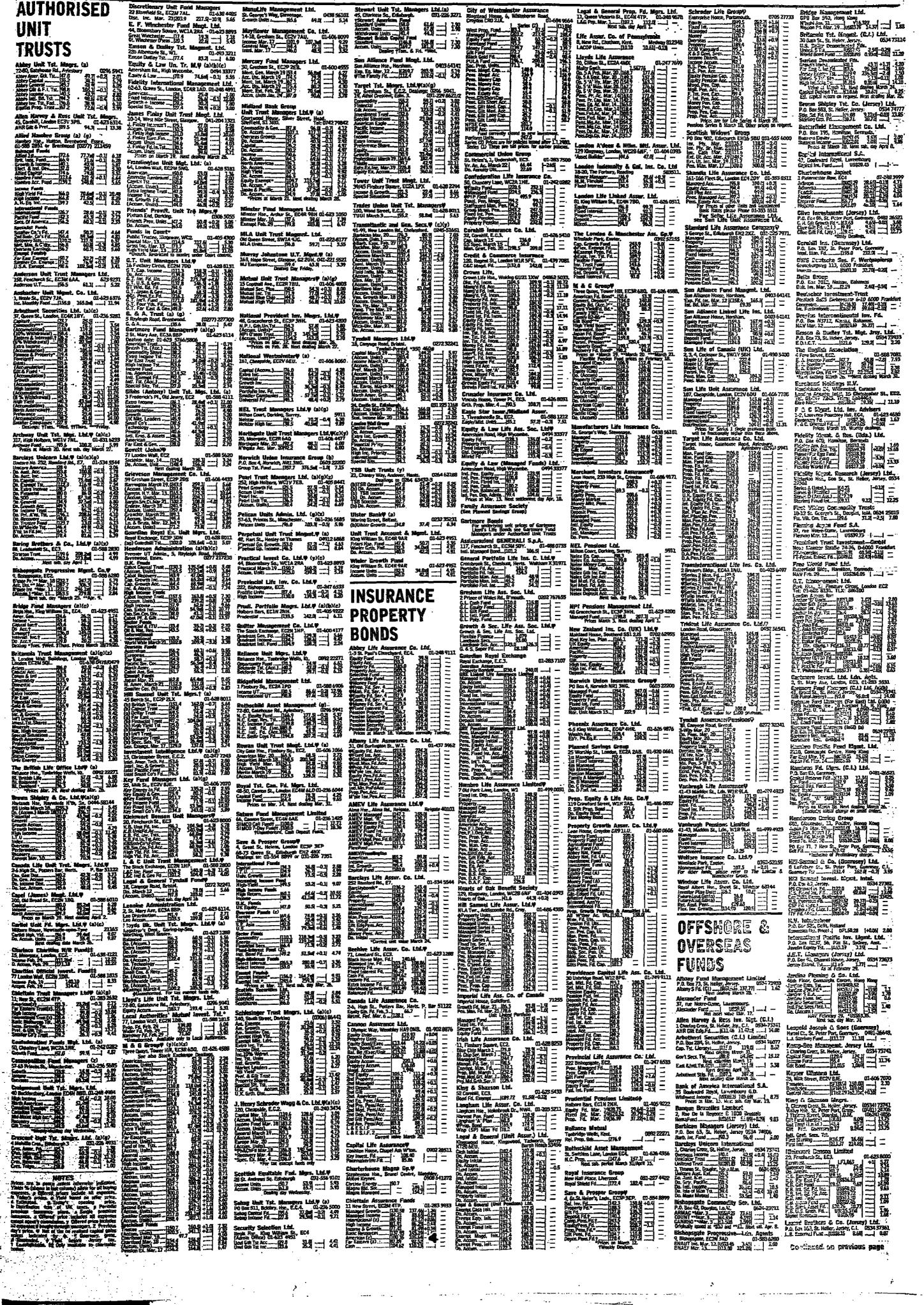
O Richmond Life Ass. Ltd. 48, Almid Street, Douglas, F.O.M. 0624 2991.4 (71 he Sher Truez 1146 5 3178 2-16.9 Do. Damord Bd. 167 4 10.3 10.2 10.0 Do. Diminord Bd. 167 4 10.3 10.0 Do. Diminord Bd. 167 4 10.3 10.3 10.5 Midstey Demoit Bd. 167 4 10.3 10.7 16.5 10.5 10.7 16.5 10.5 10.7 16.5 10.5 10.7 16.5 10.5 10.7 16.5 10

7, lersey. 0534 73588 54.6 - 10 12.95 54.0 - 10 2.95 100.0 - 10 12.95 100.0 - 10 12.95 100.0 - 10 12.55 100.0 - 10

World Wide Growth Ma 10a, Souleyard Royal, Lunco

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**SERVICE** 

Wrightson		<u>E I B</u>
International Insurance Brokers for the Construction Industry	FOREIGN BONDS & RAILS	E
Mr. 1Came - in Smoot	interest Prices Last Bir % Red. Date Stock 6 at Serves Yield	Eleidese Paid
Teleprone Olise 3 Ton	interpretable 1 57 1 0771	Mar. A
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BRITISH FUNDS	—  90.5x1913  20   _   _	Dec Sept. N June N
Des Stock Fite Lat Year Stock Shorts" (Lives up to Five Years)	1M 1N Greek 7oc Ass. 32 111 32 1141 1F 1A 20 for 28 Stah Ass. 51 12 6 9.68 1A 10 to 4oc Mused Ass. 50 27 4 6 75	Jan. Ji Feb. A June 5
14N 14May Treasury 4 pp. 80 99 819 960 16 35	May 1 Hung, 24 As:	May M Aug. A Jan. Se
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13 15 17 15 17 15 17 15 17 17 17 17 17 17 17 17 17 17 17 17 17	1A     10 Peru Ass 3ac     155     210     3     200       30J     31D/S G.I. 64 pc 1980     592     311     647     7.06       May 1     Turin 9c 1981     599     15     4     1011       15A     150 Turin 6 pc 1984     0M91     1511     642     9.30	June Jan. June 1
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22May 23N Exph. 123ac 1991#   95(3)17.10 13.51   15.59	- AMERICANS:	May N Jan Novemb
54a 54al Treasury 92 <sub>40</sub> ; "82 <sub>40</sub>	Print Steek £ 1 Gross Cry Gr	Nov. J. Apr. June
22Ndar 22S Exch. 94pc 1982 27 14 27 16 51 15 35 534 534 534 Exch. 84pc 1983 36 31 10 15 14 93 21 49 22 F Exch. 3pc 83 77 15 15 13 383 12 48	Apr. Oct. ASA 19% 82 53.00 — 6.8 M.J.S.D. AMF 59% Conv. 87. 29 17.9 5% — 7 F.My.Ag.R. Absort Labs.H. 154 13.12 12.20 — 3.3	1. A. Jv.
175 17Mar Treasury 12pc 1983: 921 11 2 13 03 15 58 24N 26Mar Treas Varione 23 61 93 2 12 10 27 20 10 51	Ma_M Se De   Armax S1	
12/m 120/5rch 10oc 1983 85.2 511 11.72 15.77	M.J.S.D.   Acarco Inc.   17   7.2 \$150   4.0   No.FeMa An Baker Intl. Corp. \$1   27   30.1   60c   1.0   M.Ju. S. D. Barnes Gro. \$62.1   745md 2a.2   80c   4.8   2.1   2.2   80c   4.8   2.2	Feb. A
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25Mar ZtSiTreasury 12pc 1984   2911   16.3 13.36 15.19 22Aug 225Treasury 15pc 1935   9912   16.1 15.03 15.02	F.Mv.Au.N.   Burroucts Corp. \$5J   29%   27.12  \$2.60     4.0	Mar Se
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22.00 22.1a 27.1a 13.anc 1987 955 17 12 14.23 14.85 1N 1May Funding black 25.87 12 73 25 9.15 12.82	Mr.Jr.S.D.   Chesebrough S1  9190   272   S1.28     6.3   Mr.Jr.S.D.   Chesebrough S1  3080   185   ±40c     ±	BEE
13a 13uii Transport 3cc 78-85   \$554 [26:13] 5.45   11.58   22.6us. 22.7i [12.50]   22.5   16.7i [13.77] 12.28	Mv.Au.N.F.   City Inv. S1.25   7130   2612  51.20     7.6	Sept. ' M
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-1s 112a/Treasury 142gc 9442 93   24   14.95   14.99   22F 22A  5:ch 123gc 1994 67   15.114.55   14.39	Apr. Oct Gen. Elect. 5232   20%   33   52.89     6.9   1.0	Feb. ( Apr. J Aug. F
Over Fifteen Years	Mr.Ju.S.D.   Honeywell 51.50.   37   26.2 52.60 - 3.1   M.J.S.D.   Harton E.F.   183,   77.2   80c - 3.3	Aug. F
IN 1829 Get 3pc 90/95 432 25.9 7.05 10.79 213a 213d Exch. 164-pc 1995 7.74 17.12 13.95 14.52	Mr.Ju.S.D.   10, 10, 11, 12, 13, 14, 14, 15, 16, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	May C
- 37 UK - 77 YELDON (290 STATEMENT)	Ma.Ju.5.9.   Lourisea Lard \$9.15.   1287 <sub>8</sub>   25.111 \$7.80     4.4 Ap.let O.la   March Han, USS 7.50   1227 <sub>2</sub>   31.12   \$2.52     9.0	April N Feb. C June J
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ZZJul ZZJattreasury 134.55 9755 924	Ju Oc. J.A.   Quaker Oris US\$5   21%   13.12   \$1.40     5.4   March   Reliance \$0.25     28   7.2   \$2.60     3.2     3.10   Res N.Y. Com \$5   10.3   12.3   \$2.52     4.8	Jan. J. Jan. J. Dec.
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255   25%3rd Exch. 125zec 1959	S. Dec. How Pockwell Int	l
"72"4 77% wiTrage 12n+"C2_77	Mr.Je.S.D. Shell Off St	ł
25.12 25.15(Topin, 155cm, 2000-03.4) 971 <sub>2</sub> = (14.21) 14.32   795 1094-57(-550cm, 111-55 701-14) 852, 11.31.6.34 13.54 13.55	June Dec 02 10% to Sk 51-5 131 27.11 1096 - 17.6	June N Jan. J Feb. C
14Ja 1456 Funding 30, ac '99-04   37, 1912 1927   11.77   21May 21 Nitrocomy 125 or '92-05   353, 153 (4.44)   12.44	Mr.Je.S D. Texaco So.25 157 <sub>8</sub> 3111 52.40 — 6.8 Mr. Ju S T. Time Isc. 267 <sub>8</sub> 32.3 57 Mr. — 3.6	Feb. 4:
5Ap 50ct/Treasure Box 700-05ct.   600-cd   33/13307   13/65	MardnSpDc Utd. Tech. SUS5 . 19% 182 \$2.20 - 5.1 Mr.Ja.S.C. U.S. Steel \$1 2169 204 \$160 - 88	Februar May D
10Mar   10S   Treasmy Star (08124)   428   428   271   12.99   28   12   12.15   13.02   13.03   13.	Mr.Je.S.O. Woodmorths 5315. 10 (1610) 51.60 - 7.2 Ap.Jy.O.J. Kerox Corp. 51 253 43 52.80 - 4.9 O.Je.An.J. Zapata Corp. 25c. 14 (15.1) 48c - 1.5	May D Feb. A Jan. J
Undated		Mar. A
1F.     1Aug   Corsols 4pc     292   27   11   15   23         1/um   10ct  War Lean 31   cort     294   53.0   51.0   51.0         1Ap   10ct  Corn. 25   50   Art. 32   53   53   25   25       32   51   53   25         5Ap   50ct  7-c3sury 3pc 65 Art. 21   21   23   25   73       32   57   32	CANADIANS  - Ma.S.J.D.   St. Mentured   22	Aug. 0
13a A.1.0. (Concels 27gc 196-25) 3.3 12.69 — 1Ap 10a(Treasury 32gc 161-25) 2.2 13.75 —	Ling Jan 18 (Self Canada 231 <sub>3</sub> ) 705pm 13 31.64 — 8.9 Ling Nov. Bow Varieyi 139 at 1012 h15c — 0.2	May N
INTERNATIONAL BANK 15F 15A/5pc Stock 77-82   03   16J 5.02   23.47	- Ma S.J.D.   St. Mentred   22   SSCs   321   651 48   6.2   F. Mey Jan.   13k. Nova Sent.             -	Jan. J Dec. M Aug. J
CORPORATION LOAMS	J.An.ly.0.  Gulf Oli Can.n	Oct. A Jan. J Nov. J
20A   310 Bath 114pt 1985	F MyAuN, Hottinger 35	Jan. Ju June Ji May Ni
1.1 10 Burnley 15oc 1587 921, 111; 4.50, 15.59 24A 240 Cardiff 11pc 1986 \$51, 149 1512; 13.59 25M 25N G.L.C. 121 <sub>2</sub> 22 921, 1510; 13.57 16.11	Mr. le S.D.   Imperial Olls    184   28.2   51.40     2.9   12.4   1.0   11.2   8.2   60c     2.0	May (
20F 10A; Do. 123-5c; 1935	F. EV Au.M. Ini Nat. Gas S1   5305   3016   90c     6.7   Mr.le.S.D.   Massey Fergiji   5955   1177	Sept. A
15M 25Ni (veroco) 93 pc 33-34   321- 1510 11 37 15 80	June         Dec Rio Alton         123, 26 10 S1 50         47           Fulles S.D. Royal Bullan, 52         251, 52 40         56         55           ScChill-Jul Seagram Co. CS1         123, 252, 395, 18         27         27, 12         51, 35         50           Fully St., For. Dor. Bb. S1         139, 77, 12         51, 35         50         50	Oct. An May O Age. O
1A. 10   Do. 94pp; 'S4-85  754;   3511.55   14.60   151   1531.00   574   774   17.12   7.72   36.49	F. He Zuik, Tor. Corr. By. S1. 194, 27.12 S1.36 — 5.0 J.Ap.Jy.0. Trans Can. Pipe 8859 23.6 51.15 — 5.0	April C Nov. M Dec. Ju
11) 115 Da Flor 85-87		Jan. Ji Jan. Ji
10M 105 Newcastle Fact 78-80 96 at 32 9.61 17-57 15J 15D Surterland 12 at 1884 15J1 13.88 15.72	BANKS AND HIRE PURCHASE	Nov. M Novembe
COMMONWEALTH & AFRICAN LOANS	Paid Stack Price a Net Cm Srs P/E	Jan. Ji Apr. Oct May
.D   10 Co. spc 1981-83   774   3110   7 95   14.82   132   1310   7 95   14.82   132   132   14.51	Feb. Aug Alexanders D. £1. 293 23.1 16.0 — 11.8 — Feb. Aug Algemene F1.100 5571 <sub>2</sub> 16.8 025% • 9.0 •	July Fo July G Feb. As
1M 1n/Sth, Africa 91:pt 79-81. 924 7.9 10.66 17.37 1A 10/Sth, Rand, 21-9c o5-70 142 366 — —	Dec. June Alfied Irish	Mar. Se Nov. M. Jan, Ji
15Ja 15J Do. 6pc 76F81   15G   1265       LOANS	Det. June Arbushmot L. £1   215   1911   10.42   —   9.3   —   July   Jan Bik. Ireland £1   330   1911   025.0   —   7.3   —   Mar.   Sept.   Do. 10pc Conv. J. £152   23.8   010%   —   F6.6   —	Jan. Ju Jan. Au
Public Board and Ind.	May Nov.   Sk. Leumi SO.1   7   8.10  4016%   —   2.5  —   Aug.   Feb.   8x. Leumi CUXXX   160   30   1857   —   13.0  —	Dec. Ju Jan. Ji April C
	Jan. July Bl. N.S.W. SA1 145 28 12 018c 3.0 6.4 53 Nov. May Bank Saxtant £1 243 24 9 †12.25 5.0 7.2 3.7 A J. O. Ja Banken N.Y. S10 12 17 4 21 20 53 30 - 8.6 Apr. Gcl. Earlay £1 418 13.8 918.5 96.6 6.5 2.7 Jan. July Brown Shipley £1 304 13.11 918.0 - 6.1 -	Mar. Se April D Nov. M
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301a 301FF1 13pt 1991 954 7112 13.52 16.90 201 200 00.14ec 85 945 if 11 14.31 15.96	Feb. Sept.   Com   Aus. (\$A1)   142   310   1018c   3.0   6.6   5.0	Apr. Au Dec. Ja
31M 305 CFC 51pc Deb. 70-82 81.2  25.2 6.79 14.87   31M 30N Cb. 64pcDb. 181.84   752 27.10 6.77 15.00   11.10 11.10 10.20 20.21 766   84   101.11.22 25.21	March (Chyp. Htts.Kr.Ito) 875   379 (13%) — 15.31 — 1 July Oct   Commissan Itop.   29   24.9 †1.05   5.9 5.2   33   May   Cred. France F75   £165   176 615 9 — 16.21 — 1	Novembe Jan. Au Jan. Ja
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_		Sturia Hidgs. 1 Wagon Finan	Opi 1	n <sub>2</sub> .77	월 2231	14	1-	2 3.8	Jan	_kH	y Bremner y Brit. Home Strs Remon (M) 20c	1 262	119.	IJ <u>17.</u> 2	1 3.0	3.8	ฝา้า :
									Oct.	· Ap	Brown (N) 20; Burton Grp. 50; Cantors 'A' 20 Casket (S.) 10	30	110.	10 62.5	29	6.2    6.7	21(7,0 7 5.
EE	R	S, WIT	NES	AN.	DS	P.I	RI.	TS	Oct.	Dec Apr	Casket (S.) 10 Church	195	[:1]	191 7.5	34	1 50	Ыф
. · · M	ar.i	Allied Brews		110	ZI 65.0		107 2.6		Aug.	· Fet	LiCornet KLSETLS	! ) 개	10,	12 hd3.	5 4. 5 4. 12	l 5.3	3 4
90. Se	цy	Amal. Dist.Pr.16 Bass Beltimen Brewe	227	. 20.1	<b>Z</b> 78	1 3.0	5	U 73	A		Cornell Dress 5:	1 4	Ն 12	8.0 K	3,		5
	ne	Bell Arthur 50 Boddinatons		. 81	115.29 113.75	42	4.6	6.3	Juce	Sept	Courts 'A' Currys Dewhirst 10p.	J. 2	22	10 HS 10 10 HS 10	71.51	103	9,5. (6.5
F	uly do.	Border Brew' Brown (Matth	5.   02 m) 144	191	2 5.08	1 28	8 56	12,1	!   Mar.	w	Cinimio Linkii Ti	74 103	23	19 IL.6 13 H28	5 33	43	H 8.
Pr	'n	Buckley's Brev Butmer(H.P.)	∷  <b>3</b> 28	2   25	2 †7.có	2	<u> </u>	9.6 6.7	New	-Jun	Ellis & Gold Se Empire Stores	266	- <b>  22</b> .	U #44.4	9 2	d 3.9	913.
VALT.	M	Bustonwood . City Lon. Def. Clark (Matther	244 99 17 126	1 111	3 13 52	16		101 111 7.9	April Jan. Jan.	فيق	Fairdale Test. 5 y Do. 'A' 5p	.   30 23 24 25	24	15	3.9	7.7 9.3 10.3	7 S
. 6		Clark (Matther Distillers 50p Gordon (L.) 10	김병	37	N IO	29	<u> </u>   7.0	6.2	l I Jan.	أنتال	y Fine Art Devs. 5 Ford (M'tin) 20	s 59	لَالْكَارُ حِدًا	图现	기감	112	7 10
Fe	t.	Greenall White Greene King.	ry. 180	281	2 5.25 2 ma.7	2 33	1 47	9.95 9102	Feb.	Aug Jul	Forminster 10 viFoster Bros	146	22			실	∯ <b>8</b> .
. Fe	b.	Guinness Hydd d Dist. 21	88	; i29.1	Z 14.9	25	1,81	N 4.9	June Apr.	Dec Oct	:  Freemans (Lon) L Gelfer (A.J.) 20	나 12성	2	lgi +2.5	1 2	3. 9.	10.
Fe	cL :b.	Invergordon Irish Distiller:	77	1 10	ย เก	i a	H 49	4.2	Joly .	Feb	Goldberg A Goodman Br. 5p Grattan Ware.	_   62	1207	77 0.95	5  24   3.8	12.1 10.6	3
No.	Č.	Macallan, Gle Margos Tompo	n. 630 n. 62		2 03.90 0 5.90 2 mil 2	1 2 9 5 4 1		d corre	1   1	Dec	LIGE Universal	3958	122	IJં;	s   33	10.	5.0
Å	إور	Moriand Scott & New 2		1 10 1 13 1	3.0 2.5.98 2.3.75	15	10.5	12.1 18.0 6.5	Mar.	- Dec	Gus A	382 9 9	) ] Z	323	7 39		8 62 14
Fe	b.Í	Tomatin Vauv Whitbread 'A'	( 142	28.	33.75 16.04 14.3 28.5	1 29	1 61	18.	Mar.	Sepi	Heiene Lon. 10;	ᅛᇩ	zd 10		4 4 5 4 20 3	7.	914
Ju	nei	Wolv. Dudley. Young Brew 'A' 5	320	121	2 85 13.52	34 36	5 C 3 S 3 S	91 71	Feb.	(Cc)	Henderson K, 21 Henriques A 10a	为 212	111	2 43.0	1 5.4	4 20	111
•	œ-1	IONN DICK A 3		1272	34 J.	. 1 -2.0	4 22	4 /2	Jan.	מעול	e Hepworth (J.) 10 LiHome Charm 10	65	170	17 3 70	3 41	83	
	-	548	· ^ ·	MO:	CT	ימי			Dec.	أوال	House of Frase	r ( 131	] <u>.</u>	3 th 1.4 10 F5.3 10 5.26	2 33	d 5s	RÌ R
		UILDIN					•		Apr.	Aug	Lices (Ernest) 10: Kitchen Queen 10	al 229	28.	275	31 21 21	127	3 3.
		IMBER						4 54	) Core	rtiziy Api	Kunick 10p Ladies Pride 20 Lee Cooper	내	15 25	2 3.4	10	92	Z 4.7
J.	ż	Aberdeen Cons Aberthaw Cen Ained Plant 10	n.   342	1191	7 T E4	1 26	7.	5.0 5.5	Jan. May	Nos	Liberty	_  160	72 8	0 3.3	7 1 53	# 3.0	N 8.1
	œĺ	Ameo Fiant 10 Amiliage Sink Amcliffe 10p.	LJ 77	' [Ц	346. N	71 26	ıj ta	7.4 3.6		AD	Do. Non. Vig. Ord Lincroft K. 10:	.   32	nd i 18	34.05	1.7	ITR 1	I 3 5
A: A:Dellary	ra.l	EPB Inds. SQ: Baggeridge Bri	:_ 176	· [192	2 thú .6		1 5.4	i 58	Nov.	Apr	MFI Furniture IC Maple 1Cp	30 76	- l-11	5 #3.0 2 12.6	2   33	i ai	8.
De	ĸ.	Bariev Ben 10 Barratt Dev. 10	þ. <b>18</b>	1   5.3	1 61.2 3470 24	44		26 21	l ban	اول	y Marks & Spence y Marks & Spence y Martin News	- 1 22	177		3 23 1 24 45	4	212
Δı	m l	Beechwood 10 Beilway	21 65	.  221	3 t267	1 3.9		il 20	l lan	Jui	Menzies (J.) Michael (J) 10	195 230 20	19	11 16.0	73		/ 6.
_	·	Benlov 20p Benlord M. 10	25	1 27	5) — 5) (2,2	3.4	10.4	5.2	July	Nov	Milletts Leis, 20 Moss Bros. 20	비 136	1193	11 tu5.1	7 29	6.9	1 6.
Αu	ю	Bett Bros. 20; Blockleys 20p	47	불	31d25	30	1 76	1 63	linby	Jan	. Mcthercare 10: . NSS News 10:	_  216	1191			2:	213.8
M.	ay ay	Sixe Circle Breedon Lime	CI 232	븼	OF 67.0	14	1 5.3 8.8	11.9	l Feb.	Abg	LIN'the Goldsmit JOwen Owen		110.	IZ 2.37	33	14.	1 10.
	7	B <i>rit. Dredgin</i> g Brown Jesn, 2	145 إي	25	의 <u>-</u> 덕 <del>11</del> 0.9	13.9		20.2	Δn-	. Oct.	Paradise (B) 10 Pawson (W.L.)	o. 23		76 '—	1-	I	 2.53x
М	a۷	Browniee Bryant Hidgs.	. 99   58	51	il 4.0	20	5.8	10.4 2.6 11.9	1 100		Peters Stores 10; Polly Peck 5p.	. 59	19.1	11 d5.0	42		13
Ja Ar	n H	Burnett & Hall: Burt Boulton i	1 193	쀻	2 6.54 2 67.0	122	1 1.9 1 5.4	4	Apr	Sept	Preedy (Alfred Pelimen R. & J. 5	) 68	[28]	Z 3.35	2 2	34	6.0
Je Je	di b	C. Robey 'A' 10 Cal'ider (GM) 1	Դու 25	135	11 ÷1 92	3.9	8.7 7.3 4.7	42 85	Dec.	Jun	Rainers 10p	45	ل22   را	0 0.53 1 11412	430	8.8	130
ال عل	n.	Carr (John) Carron	_ 3	5/1∑	1  t3.97	2,4	171	Ji6 31	Mar	Oct. Jufe	Rzybeck 10p Readicut 5p	70	. 28 193	144	1 2 9	112	LA E
. No	la)	Cement Poetsto Comben Gp. 10	b.l 29	28		8	8.1 13.2	3	July Apr.	Dec	Reed Austin 'A Roscill 50	65 25	립	9126 2231	B 3.4	6.1	61
_ o	a. j	Conder Int Costain Group	105	10.	7.0 9.680	4.9	9.9	35	1:	_	S&U Stores 121 <sub>2</sub> Dr. 25%Pi. 121 <sub>2</sub>	15		6 —	1=	lΞ	2
	×.	Countryside	99   92	z 3;	z 35	4.4	3.1	3	Feb. Dec.	Juh	Samuel (H) 'A' Selirocurt 50	.   145 .   16	.   14  -   22    -   22	0 11.75	i I 3.3	5.1 15.2	7 28
Ů.	Z.	Crouch (D.) 20 Crouch Group	84	. 1 10	d +4 n	129 25	6.9	(5.6) 5.7 4.2	Feb. May			增势	19 1 28	8 1116	3 4.9 3 3.2	갦	13.
G	t.	Douglas Robe. ! D'wning G.H. 5	4 12 4 12 12	28.	1 644.5 3 7.75 0 16.14	29	7.8	4.2 4.7 1 9.7		Apr Apr	Stanley A.G. 5 Status Disct. 10 Steinberg 10p Sumrie 20p	4 33	너끄	3621 3611	· 35	4.2 9.0 12.8	111
Ju	æ	Erith Fairclough Con Eat Lett 70s	63	15.7	1 4.0 1 1.75	25	9.4	ا ا	Jan.	75	/11 lime Prods. 10x	J 62		1 225	4.2	5.2	LA E
Ju	ıΝ	Feb. Intl. 10p Do. 'A' 10p Fed. Land & Sk	31	221	161.9 12.73	25	1 25	22.6	Feb.	,5u1 <sub>2</sub>	Tricoville 1Co	. 56 65	19.1 20.1	2 56.21	159	5.4 13.6	3.8 5.4
ember —	- 1	Finian (John) 1 Francis Pkr. 10	Dol 6/3		H770	=	24	77.3 63	Oct.	· May	Upton (E) 'A' Vantona 20p	107	둸	0.8 R	16	112	6
	άv	French Kier Galliford Sr. 5	35	_ 100.15	21 t L 92	3.9	7.E 8.9	4.7	May	NO.	Walker (Jas.) Do. N.V Warlag & Gillow	94 84 106	24. 24. 13.	oi +2 E	32	5.4 6.0	10.0 8.9
/ ay	- 10	Gibbs D'sty A 10 Gleeson (P.J.) 10	ia.   23	<u>15) 9:</u>	1413 1125 1233	17	7 9 10 4	82	May. Jan. Jan.	June	Wearwell Sp Wharf Mill 10pt	48	盛	21 62.5	17 19		K9.11
Ge	1	Glossop W. & G'gh Cooper 20	십教		대 4.2 1 5.6	1 27	16.0 12.3	4.5 (3.9)	May	Nov.	Wikasa Warbin Woolworth	- 73 67	1 83	2 \$40.6 B Hd5.7 8 4.92	31 019	11.2 11.2	41 56
Sep Ma	i.	H.A.T. Grp. 10 Helical Bar	25	16.1 25.2	1 12.77 12.67	걁	6.8	(6.B)	[ ]		THE STREET	., 6,,	21 200	oj 4.72	142-2	11111	1 3.6
ال ال <b>ال</b>	l)	Hend'sr. 'A' 10 Hewden St. 1(	2. 93 30 61	5.1	11 16.5 11 11:0.87						ELEC	מד	ار »	10			
Au Jus	ş]	Heywood Ware Higgs & Hill	75	[28.13	7 14 9	25 4.4	10.2	4.1 7.6 (5.9) 2.3 5.7 5.5	June	De				_	:	2-	
Co	Ĺ	Hoveringham. Do. Res. Vig.	67	5.11	1 2.32	52 52 25	4.7	5.7 5.5	JU4E -	. Dec.	A.B. Electronic Arien Elect ††Ascot TV Rent	.   67	10.1	2 PH45	1.9	9.6	8.9
Sep Do Ma	ᆲ	Howard Shut 11 I.D.C. 20p Ibstock Johnse	173	20	d all 5	193	9.5	3.0 2.1	April Feb.	Oct.	Audiotronic 10: Do. 12:c Ptg. Pref	6	믮	▋▃	1∃	Ξ	Ξ
G: Sep	7	rz. Tircber	230			1 23	9.5 9.7 14.6	5.9 —	lter. July	May Jan	Auto'ted Sec. 10 BICC 50p	239	29) 51)	11.49 17.79		0.9 10.4	20.4 6.8
Sep دید	si.	Jarvis (J.) Jennings SAO 5 Jones Edwo, 10	bJ 14	677	∦=2Zűc	=	ا ٿ	13	Apr. July	`Nov. Jan.	BSR 10p Berec	32 %	24 5 5 1	2.83 14.78	2,2	矧	ф 5.9
نځ ember	1	afarge S.A.F.() Lating (John) "/	0. 524	310	0221%	51	9.2 10.2	28	Jan. Jun Mar	Nov.	Bowtherpe 10p. Brecks 10p Bulgan 'A' 5p	69	31 24	i i3.17	3.9 2.0 2.0	25	(8.5)
Au Jij Re	٠ŀ	Latham (J.) £; Lawrence (W., Leech (Wm.) 21	).] 102	19.11 19.11	Ų 7.90	50	9.8	ا ج	May July - Apr.	Nov. Dec. Oct.	Chloride Grp Concord Rota 10o	34 52 23	191	16.1	13		띯
De De		Leech (Wrs.) 20 Levland Paint Lilley F.J.C		22 10 5 13	3.0	3.7 4.6	10.7	(6.7) 4.2 6.7	April Mar.	· Nav. Feb.	CrayEl'trook 10; Crystalate 50	38	25.7	+1.72 116	덇	6.5	- 27 253
Ju	t/i	London Brick Lovell (Y. J.).	72	511	†365 575	28	12	35 35	April Apr.	Oct.	Dale Elect. 10a Decta	89 616	25.2	14.12	17	6.6	Œ
Oc Jur		Magne! & Sthre Mallirson-Denn	.   172 v.   64		11:5.74	26 36	48 7.0	116	Apr. Feb.	Dec.	Do. 'A' Derritron 10p	525	10/12	1433 0.81	36	53	
Jus	e l	Kanders (Hikko		22.10	7331 5.0	4.9 3.5	10 S	9.6	Sept. May	Dec.	Dewhurst 'A' 10p Dowding & M. 10p	35	281 810	0.92 1.5	34	6.1	愕
Oc Au	الو	Marshalls (His Mav & Hasses:	_ 50	281	13:25	컖	5.7	53 (8.9)	Cct. Jan. Feb.	Judy	Dreamland 10p. Dubilier 5p Elect'comps 10p	56 40 520	23,	127	49 24	쳟	9.9 9.9 19.0
Sep	e li	M.D.W Visyer (MorrL L		19.11 23.12	t t5.75	29 34	7.7	4.6	Heb.	UCL.	For Electrol	ன் 8 வ	e Ind	†6.5 Istrais	1 471	Tal	19.0
No	v.)!	Wilbury Wilter (Stan) 29 Viscancrete	50 51 71	10.12 22.10 10.9	H 72.2		17.3		JanA	lg.	Electronic Mach, Elect, Rentals 25p Emess Lighting	26 104 102	975   141		2.4 3.0	5.9	썙
M.	n.	Mod. Engineer Monk (A)	5 kg	R10	1:1251	2C	14.3	4.9	Jan., Feb.	Aug. Aug.	Energy Servs, 10p., Eurotherm Int., 10p.,	26 305	뒓	l <del>1</del> 05	翌	2.7	115 164
Ju.	١Į.	Vowleπ (J) Yewarth:   £1.	_ 92	22,10	17.26	29	1 1 2 3 3	35	June Feb.	Nov.	Fameli Elec, 20p Ferranti 50p	223	2210	th2.95	扫	15	23.0 10.2
Ju	lyi.	Vorwest Holst Note, Brick 50	] 15% 145	19 11	105.04 10.02	7.D 2.4	54	28	July May	Jan. Nov.	Fidelity Rad. 10p. Forward Tech	53	19.11 22.10	15.66 4.7	긶	15.9 8.1	53 18.0
ىلە ئال	Ų.	Pochins	135 162	2 2 10 2 2 10	490	4.8	2 3	똃	Mar. Janu	STY CEL	G.E.C.,,,	363	11.2 19.11	14.25	뎶	걟	<u>!!</u> !51
De Go	1	Redland	<u>152</u>		f +6.7	31 29	6.3 6.0	7.5 (9.0)	Jan.	Jun	Jones Stroud Kode Int	71 206=		6.58		IO.5	3 <u>2</u>
	Ŋŀ	Resignat (5 Wirms. Fichids: Wall 10 Pobaste Antoni	ial 63	259	15.04	28	3.01	(3 A)	Mar. June Jun	Oct.	Lzurence Scott. Lec Refrig M.K. Electric	48 56 163	279 10.9 10.12	1029	44	7.4	44.
<sup>De</sup>	4	Poberts Adlan Pohan Group "	1.   158   27	25.2 25.2	th4.0	<u> - 3</u> 위	5.0 6.4	10.G 2.5	-	УШУ	M.K. Electric ####### Box 10p _ Co. 12x Pts Pt. 10p	163 40 <sub>2</sub> 5	<del>""</del>	120	1-1	10.5 14.3	4.0
Ma	v.	Rowleson 1099 Royco Group 5 Ruberoid	- 34 38 52	25 12 22 10 22 10	<b>♦</b> €3.5	0.4 3.6	13.2	52 30	Ja Jan.		Ge 13x Ptg Pt 16p. Motorola \$3 Muirhead	£242.	27.12 28.1	12 051,40 4.0	긒	26	
Ju Dou	'n	Ruberoid Rugby P. Cemer SGB Group	248	1911	1+3 64	18	6.3 8.6 4.8	9.2 8.3 5.0	Jan. Mar,	July Oct.	Newman Inds Newmark Louis	190 50 312	28 12 11 2	##4.8 #9.0	35	33)	21 19.4
Ma Oc	7	sharpe & Fisher Sheffield Brick	- 45 35	75.2 10.5 5.11	3.13	Ĉ.7	5.7 12.4	(12.17)	July Mar,	Jan. Sept.	Normand El. 20p. Perkin-Elmer 4pc	34 £129	432	12.78 Q4%	24	訠	5.6
- Ju	1	Smart (J.) 10p Southern Con. 5	) 3¢	2 377 477	a2.75	19	11.6	ė.5 —	Jas. Noven	July nber	Petbow Hido 10p Phicam 10a	37 31st	28.12	10	생	7.51	3.9} •
No	"	streeters 10p. Farmac 50p	267	34 6 8 16	110 95	_ 25	74	6.6 7.5	May Dec. Apr.	Dec.} M≥y	Philips Fir. 5% % Philips Lp. F10.	£44 385	155 19.12 19.9	053 % Q18%	43	녆	÷
Oc.	ı, T	'aylor Woodros Filbury C'tg (1) Frays, & Arnol	1765	23.0 21.0 21.0	22.38	5.4 2 9	19.4 25	75 29	Aor. July	0:U	PHoo Hidgs, 20p Do. 'A' 20p Plessey 50p	131 128 133	10.9 10.9 5.11	14.8 14.8 16.31	섉	5.4	7.6 7.4 Mili
יניה מיל, מו	9 F (y) (	ravs & Arnol unnel B JBM Group	132	15 12	1 16 25	目語	4.9	7.9 7.3 (7.3)	Apr.	Nov.	Pressoc 10p HQuest Auto, 10p.	37 117	ᆁ	hd20	4.7	<u> 7월</u>	3.3 8.8
.Fe	i	lecus Stone 10 libroplant	233	1112	145	2.7 2.9	6.9 6.3	7.4 7.5	Feb. Jan. May	July	Racal Electrics Rediffusion	213 74	16/12	63.75 5.25	14	25) 0.1)	Ďί
وي. العار	;;	Vard Hkiqs, 10; Narrington		d 103	84.2 3.53	12	9.8 9.8	2.4 12.1	May —	`   i	Scholes (GH) Security Centres	255	24.9	:18.52 bs1.0	냽	9.6 3.92	
No Ju	ı,þ	Matts Blake Nestbrick Prod Mettern Bros .		1910 1911 1911	1730	3.6 3.0 2.1	2.7 8.4 8.0	14.9 3.9	Joly Octol Novem	ber	Sony Co. YSO Sound Diffsn. 5p, Dd. Tel. & Cables,	330 60 254	3.7 22.16	950% 11.05	2.7 2.1	셄	ه د ک
قائل ``	y N	Mhatlings 25p Mat'gh'in 121g	- 18 101	231	6.0	! — <del>}</del>	뛶윎	3.7	Noven	iber	Sufer Electrical Sp Do. Defd. So	27 19	105	10.	35	53	7.7
Oc Jui	ij	Viggers Con. 10 Milean Connelly	別婿	28 8 19.9	1333	24 12.7	25	55	Apr. Apr. Der	Nov.	Telefusion 5p Do : A' N/V 5p	32m 31m	盟	뚢	1.7	6.91 C	贈
		Mimpey (Geo)		1 8,16	2.26	5.9	4.4	4.0	Dec. Mar. Jan,	June Oct.	Tele. Rentals	182 312	1252	#6.52 †13.0	2.0	됎	37 6.0
r	μ	FMICA	10	Dı	V C.	JO:	-	_ ;	Apr.	Dec.	Do 7x (m.P.192.49) Thorpe F. W. 10p Unitech 10p	88 125 283	盟	7.0 12.22 16.09	20,41	교	-
~-	14	EMICA	∤ 510	111 10	AST ! cz:v.		ي س		10ct _	Apr. 1	Jid. Scientific Inzera N V R 0.25	449 270	28.12	bP.0.45	28 23	2.引 3.引	2.4 71.3 1.0
Sep No		Illia Colloid 13:	105	213	642.54 14.64	37	3.5	12 0 (8 5)	Feb. Jan. Decen		Mard & Gold Melico Mids, 5p Matworth £1, 5p	56 294 <sub>2</sub> 25	[28.12]	4.99 i	28[]	2.7k:	3.23 I
_	- 40		14.3				- 01	انجير					71	1	السب	_ = '	_ '

INFORMATION

SHARE

70. 2r, 3v,	Sept. Mar.	H.A.T. Grp. 10p	35	151	H177 1267	25 25	1131	(6.8) 10.1	Apr.	<b>0</b> d	.[Woolworth	_] 671	2   28.	8  4.92	]q <u>1.9</u>	111.0	5.6	Apr. Apr. Sept.
Iñ. Iñ.	June	Hend'sr. 'A' 100 Hewden St. 10p	93 61	511	l 16.5 i 1160.87	4.8 6.5 2.9	9.5	4.1 7.6 (5.9)			ELE	CTD	ır.	15				Jan.
T.	June	Heyerood Wars. Higgs & Hill	75 54		13.85	4.4	10.2	1 23	June	Des	A.B. Electroni				: 24	* 4 7	1 40	May
n. Iril	CcL	Hoveringham Co. Res. Vtg	72	뛢	2.32	52   52	4.9	5.7 5.5	June		Arien Elect	. 67	10.1	7.0 P:44.5	13	6.7 9.6	8.9	May Mar.
ar. Ini	Sept. Gal	I.D.C. 2Cp	173	25	#154 8115 845	25 103 24	9.5	1 1.1	April Feb.		Audiotronic 10	6 6	H		] =	1=	=	Nov. Oct.
v. v.	Got	Ibsock Johnsen Int. Timber	210	انكا	F6.69	23	9.7	5.9 5.9	lan. July	Ма	Auto ted Sec. 11	230		†1.49	54	0.9	20.4	Apr. Aug.
ril F.	Sept. Sept.		1112 47	1.33	1610.9 =320c	=	14.6 ‡	13	Apr. July	` Nov	.BSR 10p	107 32 %	200	283	1.7 0 2.8	13.2	6.8 6 5.9	June Jan.
¥.	ويند والح		1244	27	0221%	74	9.2 10.2	81	Jan. Jun	June	Serec Sowthorpe 10 Brocks 100	104	1511	+4.78   +1.8   13.17	3.9 2.0	71 25		Oct. Nov.
π.		Latham (J.) £1.	45 246	3 10 35 12	÷8.7	50	8.9	25	May	Nov	Bulgan 'A' Sp Chloride Gro	34	19.1	8th1.21	20	֚֚֚֚֚֚֚֚֓֞֝֝֝֟֝֟֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	阿	Nov.
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Financial Times Monday March 24 1980 INDUSTRIALS—Continued INSURANCE—Continued INVESTMENT TRUSTS—Cont. PROPERTY—Continued . FINANCE, LAND—Continued Hise I wet Chr Brs ME | Paid | Stack | Price | 21 | Net | Cwr | Gr's | Price | Red | Price | 22 | Net | Cwr | Gr's | Price | Red | Price | 23 | Net | Cwr | Gr's | Price | Red | Price | 24 | Net | Cwr | Gr's | Price | Red 112 220 0.78 1 1 97125 TRANSPORT INDUSTRY 288143 17120 71 263 904 12 41285 810 128 31 49 73 49 160 37 57 65 22 475 11 52 239 49 94 8 7 79 — 18 10 6 7 124 35 927 1115 85 94 95 92 1115 85 94 95 9 13 4 22 21 9 13 4 22 21 9 13 4 22 21 4 36 132 28 044 35 62 72 317 20 6 25 6 MINES—Continued Law Land 205 ... Lend Lease 50c e Lan Prov Sho 10p Lon. Shop Prop Lymon Hors. 20p e MEPC ..... CENTRAL AFRICAN 296 560 39:si 190 58 31 OIL & GAS **AUSTRALIAN** 146 - 12/206 97 154 - 12/22 1 242 1 AMOREA RECORD TO AN ADDRESS AND EATHER STATE OF THE STATE MOTORS, AIRCRAFT TRADES Motors and Cycles

The Causeway, Horsham

# Egypt frozen funds accord

BY RICHARD JOHNS, MIDDLE EAST EDITOR

have agreed not to press comfrozen late last year by Presi- the sum involved presented no dent Anwar Sadat's Govern- problem.

Minister of Economy, said that the agreement had been obtained after an approach by Johannes -Witteveen. former managing director of the IMF, and direct approaches to the Governments of the two Arab oil-producing States by Dr. Abdul Shakur Shaalan, director of the Fund's Middle East

Egypt had previously stated an intention to pay interest in the deposits that Dr. Saven put at \$1.1bn for Kuwait and \$870m for Saudi Arabia.

Kuwaiti money could technically be called at any time, and the Saudi funds are believed to be due for repayment in 1981, though understanding was reached in 1978 that the deposits should remain

**Cabinet** 

row over

and Mr. James Prior, Employ-

ment Secretary.

She told the Conservative

Central Council that the Government would be producing

further proposals for reform

"as soon as the present Employment Bill is approved."

no mention of the Green Paper which Ministers agreed last

month would be published some-

time later in the year as a means of reviewing the whole

question of trade union immuni-

Since Mr Prior was being

criticised from the floor for fail-

to it, she was applauded by the

audience-but not by Mr. Prior.

approach to union reform, now

fear that the Green Paper

could prove troublesome, with

Cabinet hawks using it to press

for mandatory secret ballots as

immunities.

legislation.

sunny intervals.

well as a further review of

The decision to publish a

Green Paper was part of the package agreed last month at

the end of the much-publicised

arguing in the Cabinet over the

Definition of immunities, Page 7

Weather

UK TODAY

COLD, with wintry showers and

London, England. Wales.

Showers heavy in places. Sunny intervals. Max. 9C

Borders. Edinburgh, Dundee,

Glasgow, S.W. Scotland, N. Ireland

Cloudy with occasional snow. Max. 5C (41F).

Aberdeen, Moray Firth.

N.E. Scotland, Orkney, Shetland

Mostly dry. Bright intervals. Max. 5C (41F).

Y day
midday
cc of |
R 10 50 Lendon
C 5 41 Ls Ang
F 18 64 Luxor
S 29 84 Luxor
S 14 57 Madrid
S 21 70 Majorea
SI 3 37 Malage
C 15 59 Matta
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S 41 Mibhe.

4 39 Strasho

37 Tunis 68 Valence 48 Venice 73 Vienna

63 Warsaw

R 4 3915tr35hg. F 16 6115ydney F 4 391Tangier R 7 451Tehran S -4 251Tel Auto C 21 701Tenerife F 10 501Tokyo S 5 411Toronto

Outlook: Unsettled, mostly

Channel Islands, Isle of Man

Ministers who, like Mr.

favour a gradual

for mentioning this review.

By contrast, Mr. Prior made

unions

likely

ing to Egyptian claims.
The Minister did not specify plaints with the International The Minister did not specify dies would be held at the same Monetary Fund relating to what his Government planned level as in 1980, a decline in deposits worth nearly \$2bn with to do about deposits of \$30m the Egyptian Central Bank placed by Iraq, though he said

Iraq brought the issue alive Interviewed in London at the by demanding repayment in weekend, Dr. Hamed el Sayeh, line with the economic sauctions against Egypt decided on last April by most Arab States in retaliation against the Israeli peace treaty, and raised the matter with the IMF.

Egypt retorted by saying that Iraq owed the money for civil engineering and construction work already carried out.

Dr. Sayeh said that the final touches had been put on the Letter of Intent regarding a three-year IMF facility worth 525m Special Drawing Bights £525m Special Drawing Rights. equivalent of nearly \$670m at the present rate. agreement would be

signed next month after the fiscal measures required by the IMF had been approved by the Egyptian Parliament.
These include a "flexible"

sales tax and a budgetary com-

ing to E£2.2bn (£1.42bn). Subsireal terms, according to Dr. Sayeb, who welcomed the discipline demanded by the Fund as a means of pushing through the Cabinet badly-needed reforms.

The World Bank is extending worth \$400m, one-third in soft loans, making Egypt the biggest beneficiary of its assistance after India.

## Reforms aim

Egypt and the IMF originally discussed a facility of \$1.2bn.
Mr. Sayeh rejected the IMF
argument that such a total could not be justified because of the strength of the country's involving capital of £E56m balance of payments. (£36.3m), and 30 more are

Last year a modest overall surplus was recorded, not least because of increased earnings from oil exports amounting to about \$10n, income from the Suez Canal and higher tourism receipts.

account deficit. The crucial fac- relatively.

KUWAIT and Saudi Arabia in Egypt for 10 years, accord- mitment to limit deficit financ- tors were workers' remittance from abroad, estimated at some In 1980 Egypt's balance of

payments is expected to improve still further, with value of oil exports reaching \$2hn and receipts from the Suez Canal \$1bn as a result of higher dues and completion of the first stage of the Canal's expansion. Aid in prospect, not including U.S. military assistance, is \$2.5bn

despite the cut-off of funds from the Arab oil-producing States. Last week Dr. Sayeh attended a meeting in London at the Confederation of British Industry aimed at stimulating interest in investment in Egypt At present 70 UK companies are involved in joint ventures,

negotiating. Commenting on the low average investment commitment. Dr. Sayeh said that the Government was as interested foreign participation in small and medium-sized pro-

Nevertheless Egypt was still jects, because of the large running a substantial current number of jobs they created

# Stalemate on steel probe

BY NICK GARNETT, LABOUR STAFF

THE GOVERNMENT and the steel unions are still not agreed on the form of the inquiry designed to end the 12-week-old strike in the industry.

Union leaders will this morning tell Mr. James Prior, the Employment Secretary, that the Government should set up ANOTHER CABINET row over the committee, the terms of reftrade union reform later this erence for which were agreed year now looks increasingly likely in the light of weekend on between the unions and the British Steel Corporation on speeches by the Prime Minister Friday.

The Corporation, however, the committee-which would look solely into pay-to be sponsored by the Advisory, Conciliation and Arbitration Service and believes the Government will tell the unions today that this is the body the two sides must use.

least delay an end to the strike. There are some differences between the unions though, both in their attitudes towards ACAS and towards the continuation of the strike.

Speaking on LBC Radio yesterday, Mr. Prior stressed bow valuable ACAS had been in solving disputes which was one of its prime functions.

There is concern within the Government, however, that it should not be seen to be interfering in the way negotiations between the corporation and the unions are handled. Mr. Bill Sirs, general sec-

of the Iron and dispute Trades Confederation, of steel.

The unions say such a reiterated yesterday that he did response from Government will not believe the strike would be jeopardise the initiative and at called off until money was put on the table by the inquiry.

> He hinted however that this some of the pay rise already offered to the strikers, together

The corporation has offered 10 per cent nationally nad 4 per cent for locally negotiated productivity deals and job losses. The unions are seeking 14 per cent in return for the national productivity deal, the terms of which have been agreed, together with 5 pe reent localy.

A mass meeting of Liverpool dockers yesterday demanded a national dock trike over a local dispute involving the handling

## Fuel subsidies of £75m planned

BY ELINOR GOODMAN, LOBBY STAFF

THE GOVERNMENT is set to The Energy and Social Even so, it will be more announce the provision of £75m Security Departments were selective than Labour's £34m subsidies to help the needy with originally arguing for a pack-fuel discount scheme which, their fuel bills. About £10m of age costing £100m. They argued though it only applied to elecing to act toughly enough with the unions, he had every reason l their fuel bills. About £10m of this is a carry-over from last The rest is new money which Ministers hope will go some way to repairing the political damage done by the gas price rise.

The assistance will be available for al kinds of fuel bills, while a small amount of money will also be made available to with home insulation. Ministers are, however, still working on the details of a more ambitious insulation project to be announced later this year.

that in the context of British Gas's profits this really was not a very high figure. But the Treasury apparently took the view that a figure nearer £50m would be more appropriate.

In the event, the Treasury agreed to continue with a scheme Government announced last November for helping 350,000 families with fuel bills. On top of this, it is launching a new scheme which will entitle many more families and elderly people to assistance. made now

tricity bills, spread the net of families entitled to assistance wider than the present Government thought necessary.

On Saturday, Mr. David Howell, the Energy Secretary, said the Government was very close to finalising details of the new scheme and it would be announcing it shortly. One possibility is that the announcement will come this week along with details of the pension inwith a lump sum payment were

Continued from Page 1

# Carter finance systems reforms

savings deposits except on non- \$31bn. personal (mainly corporate)

time deposits. The Fed's reserve requirements would range from 3 per cent up to a possible maximum of 14 per cent, instead of from

7 to 16; per cent as now, Large banks in membership of the Federal Reserve system are expected to see a sharp reduction in reserve requirements, and non-members, of course, an increase. (These figures exclude the marginal reserve of 10 per cent on managed liabilities imposed by last week's credit control package.)

The changes would not have an immediate impact because they are to be phased in over

It is estimated that the net effect would be to reduce

with the Fed. including elimin- mum of about \$16bn, compared hard to afford the higher costs ation of reserves on time and with the present level of about of keeping deposits, it would

Another fundamental change Regulation Q. Current interest taking their money out of banks as interest rates rose.

Money has also been shifted higher interest, particularly the to pay interest on deposits. introduced in June 1978.

tions greater flexibility. It is politically attractive hecause it will give savers a better return.

However, because some finanreserves at the Fed to a mini- cial institutions would find it takeovers.

be phased in slowly.

Other important elements in is the proposal to phase out the new legislation include reform of usury ceilings, which as rate ceilings of up to 51 per interest rates have risen have cent have resulted in depositors resulted in banks being unable interest rates have risen have to charge profitable interest and savings and loan institutions rates on certain loans in some states.

The legislation will permit a from savings accounts at banks variety of new banking and "thrift" institutions into accounts which in effect permit new forms of account paying banks and savings institutions One worrying element in the introduced in June 1978.

Phasing out Regulation Q clause imposing a moratorium would give the financial instituon foreign bank takeovers in

the U.S. until July this year. While this may affect few transactions, and is only temporary, it serves as a warning of political unease over foreign

# Ship deal with Hong Kong SIR YUE-KONG PAO, one of

China in

Horg Kong's leading ship-owners, confirmed here on his return from a visit to Peking that he has entered into a joint venture with China on shipping. Precise details were not disclosed but Sir Yue-Kong Pao said that the deal would help establish China "in international shipping.' A joint-venture company

International United Shipping and Investment Com-pany would be formed by Worldwide companies on the Hong Kong side and by China Corporation of Shipbuilding Industry and China National Shipchartering Corporation on the Chinese side.

The deal was announced by the New China News Agency and confirmed by Sir Yue-Kong Pao on his return from China where he and Mr. P. C. Lee, Worldwide Shipping group's vice-chairman, met chairman Hua Guo Fung, two Vice-Premiers of China and the Minister in charge of the ship-

discussed the possible purchase of Chinese-made vessels by the Worldwide group, although nothing had yet been concluded. At present China is exporting vessels of up to 30,000 tonnes but Sir Yue-Kong said that in a year's time China should be able to build and export vessels

# on arms sales

of talks with Chinese leaders on defence and foreign policy. The question of sales of military proposal for country's neutrality.

tion. While his visit should not be linked directly to events in Afghanistan, inevitably they will provide an important topic for discussion. He is the first West European defence Minister to visit China, the first Cabinet Minister from Mrs. Thatcher's Government and the first Euro-pean visitor of importance since the U.S. Defence Secretary,

Harold Brown's visit in January.

Mr. Pym is accompanied by senior officials from the Defence Sales Department and the Industry Department. The visit is seen as providing impetus for the sale of British equipment in both civilian and military fields, where negotiations have recently slowed.

## Inmos

has said it plans to correct, has led to speculation that there might be some future link

between the joint company and Inmos. The advantage would be the provision of growing MOS ex-pertise in Inmos being used by GEC-Fairchild, while Inmos

would benefit from the large funds held by GEC when it requires further investment

# New National Health stamp proposed

BY ELINOR GOODMAN, LOBBY STAFF

The Department of Health is of the end of state-financed might pay more for the health its early implementation. Howconsidering the introduction of a new National Health stamp as an alternative to the present system of financing the health

probably he shared between the employee and the employer as with the National Insurance stamp. The proceeds would be into a central fund. Hospitals and doctors would then bill this fund for the cost of their services.

An attempt to change the financing of the health service would be a political minefield. may lead to greater decentrali-The Opposition would certainly sation-implementing the party interpret it as the beginning

medicine. some Ministers However.

financing the service largely out of tax may have to be changed The cost of the stamp would if the level of service is to be maintained—let alone improved. are being considered, it is revenue.

thought. The Government is commit-ted to maintaining health more immediate point at issue service spending, but it has not ruled out increased charges.

There are two main argumanifesto. Secondly, people believed have been arguing for

service if they knew proceeds ever, the Treasury has mainwere going into a health fund tained that it would be illogical believe the present method of rather than some general one, to increase the tax offsets avail-By raising the stamp contri-

might be able to maintain the

standard of service without A number of other options making further demands on tax Consideration of the idea is is the timing of implementing

the Conservative party's manifeste to restoring tax relief on ments for a stamp. Firstly, it company medical insurance Health. Ministers, it

able to companies in this way button, the Government, thus, at a time when the Government was trying to clamp down on other company perks. In its report on the health

service, published last summer, the Royal Commission examined number of alternative methods of financing the service but it said it was not convinced that claimed advantages of insurance finance or sub stantial increases in revenue from charges would "outweigh their undoubted disadvantages in terms of equity and adminis-

# THE LEX COLUMN

# The Chancellor and interest rates

GILT - EDGED

Net sales to the publi

Recent annual Budget statements have usually been important events for the giltedged market, not just because the expectations of investors have been changed but also because the Government has needed to get its funding process moving again. This is certainly true for Sir Geoffrey Howe's second Budget on Wednesday; the gilt-

of being left on the wrong tack

and then being forced into a

U-turn. If prices change sub-

stantially on Thursday morn-

ing, they may not just be reflecting Sir Geoffrey's pro-

Important theme

edged market has for the past few weeks gone into its characteristic state of pre-Budget hibernation. Although this has not yet become an embarrassment for the authorities, because the strains in the money market have ruled out attempts to sell debt on any large scale, the Government Broker will want to get his taps back into action as the public

sector begins to swing back into financial deficit. Moreover there is also feeling that the gilt-edged market has failed to react properly to other recent financial events, notably the latest U.S. anti-inflation package. ping industry. Sir Yue-Kong Pao said he had Fund managers have not been in the mood to make major adjustments to their portfolios abead of the Budget, for fear

# Pym talks

By Colina MacDougall in Peking

MR. FRANCIS PYM. the Defenc Secretary has arrived in Peking for two-and-a-balf days hardware is expected to be raised, as well as the Russian invasion of Afghanistan and the

On Thursday Mr. Pym will go to Shanghai for the opening of the British Aerospace Exhibi-

The programme includes meetings with a so far unspecified Chinese leader, with the Foreign Minister. Huang Hua, and other senior Ministers.

Continued from Page 1

This weakness, which GEO

having the most rapid market

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But it is unlikely to look as builish as that on Wednesday. The quality of the PSBR fore-

of gilts and other public

ector debt by the personal

cast will have to be examined closely, both in terms of closely, both in terms of cosmetic factors like plaumed asset sales, and in terms of the plausibility of the underlying public spending assumptions, on which the accompanying White Paper should shed some light. There is also the key question of involuntary bank botrowing by companies, which in the manufacturing sector at least are facing severe pressure on are facing severe pressure on profits. If the economy moves into recession the financial problem will be eased through cutbacks in stocks and capital spending, but as the Americana have found it is easy to get the

timing of this wrong. Rising Pay

With manufacturing industry under such pressure there is a case for shifting the burden of corporate taxation somewhat, perhaps by increasing the rate of PRT and cutting the National Insurance surcharge, or by modifying the availability of stock relief for corporation tax, an area which retailers will be watching with some anxiety (while banks will be nervous about prospects for capital allowances on leased assets).

Any major assistance for the corporate sector, however, would undermine the Government's monetarist strategy, and vould encourage both sides of industry to continue to ignore the implications of tight miney. Sir Geoffrey's biggest danger comes from the surging 20 per cent pay round. This is why the Chancellor's statements on short and medium

term monetary policy will be of crucial importance to the response from the financial marets. If the corset is indeed to be removed, the authorities will have to cope with a problem of re-intermediation and thus temporarily buoyant sterling MJ as assets outside the banking system come back within ! Looking further ahead, So Geoffrey will need to emphasis

The one thing that the That would be a bullish Chancellor will not now he abi he could early in the year. Our

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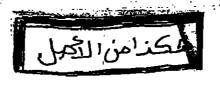
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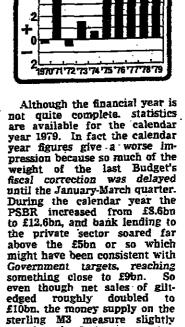
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Bernard Thorpe

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get growth range.
The financial year figures will be slightly less extreme, taking As far as the City is in the January-March quarter concerned, and probably the which will have shown a hand-Chancellor too, the most some public sector surplus. But important theme of the Budget bank lending remains a problem, for although personal borwill be its influence on the lem, for although personal bor-future trend of interest rates. rowing appears to be tailing So far the Conservative away, companies are under pres-Government's performance in this respect has been deeply calendar 1979 the industrial and sure. It looks as though in calendar 1979 the industrial and disappointing.

Last June the Chancellor a financial deficit approaching hoped that a projected public sector harmanian areas the industrial and commercial company sector ran a financial deficit approaching better harmanian areas the industrial and commercial company sector ran areas and commercial commercial company sector ran areas and commercial comm

overshot the 9-11 per cent tar-

The arithmetic

sector borrowing requirement of £8.3bn for the 1979-80 financial year could be financed in the context of only a modest rise in How will the Budget arithmetic turn out? The expectation in the City is that Sir Geoffrey, interest rates; he put up Minimum Lending Rate to 14 by fair means or foul, will pubper cent on Budget Day. What lish a PSBR forecast of £8.5bn per cent on Budget Day. What lish a PSBK forecast of £8.50n Geoffrey will need to emphasize went wrong was partly that the or even less. If bank lending his medium term commitment is possible to be significantly higher than sionary level of, say, £50n money growth, even if hu finds expected—probably somewhere in the range £2.50n-£100n on a sell only about £7.50n of public comparable basis, though the sector debt, allowing for a £10n for some guidance on how North decision to bring forward the increase in the banks' non-Sea revenues will affect the land to the comparation of patroleum density liabilities and ignoring the land of the complexity is a possible content. May instalment of petroleum deposit liabilities, and ignoring public sector's finances. revenue tax to March has external flows.

massaged the published figure down somewhat. More impor- framework for the capital mar- to do is deliver an immediate tantly, the demand for credit kets, bearing in mind that insticut in MLR in his Budget, from the private sector has tutional cash flows will be climb many in the City were hopin increased to an extent which ing to well over £10bn, and they has put severe strains on the would only need to absorb £5bn

or so of gilts, allowing for the tomorrow Budget.

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